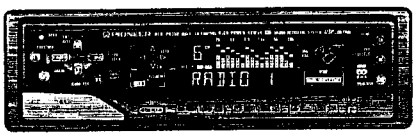
# Service Manual

PIONEER®
*The Art of Entertainment*

DEH-P835R/EW



ORDER NO.
**CRT2036**

MULTI-CD/DSP CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

# DEH-P835R EW

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

# DEH-P735R EW

COMPACT disc DIGITAL AUDIO

- See the separate manual CX-597(CRT1829) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of CX-597 series.
- This device employs an inverter as the power supply for EL. The inverter has an output voltage reach approximately 200 volts(AC). Utmost care should be used not to suffer from a possible electric shock, accordingly.
- The words "Sound Retrieval System" and the SRS Symbol(●)are trademarks of SRS Labs, Inc. Patented in the USA and selected countries.
  *Registered in the US and selected foreign countries.

(●)*SOUND RETRIEVAL SYSTEM

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**● CD Player Service Precautions**

1. For pickup unit(CXX1230) handling, please refer to"Disassembly"(CX-597 Service Manual CRT1829). During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
3. Please checking the grating after changing the service pickup unit(see page 58).
4. This device employs an inverter as the power supply for the EL. Utmost cars should be used not to suffer from a possible electric shock, accordingly.

# 1. SAFETY INFORMATION

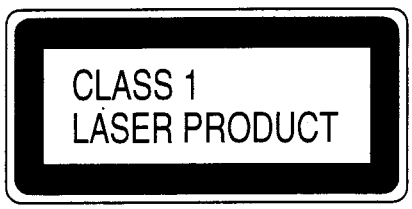
**1. Safety Precautions for those who Service this Unit.**

- **When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.**

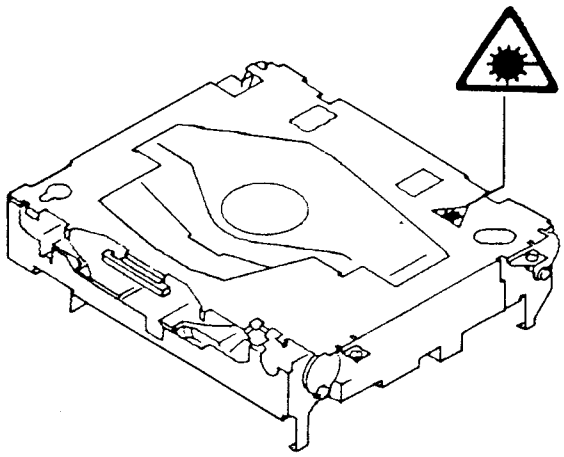
**Caution:**

1. **During repair or tests, minimum distance of 13cm from the focus lens must be kept.**
2. **During repair or tests, do not view laser beam for 10 seconds or longer.**

**2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.**




**3. The triangular label is attached to the mechanism unit frame.**



**4. Specifications of Laser Diode**

Specifications of laser radiation fields to which human access is possible during service.
Wavelength = 800 nanometers

# 2. EXPLODED VIEWS AND PARTS LIST

## 2.1 PACKING

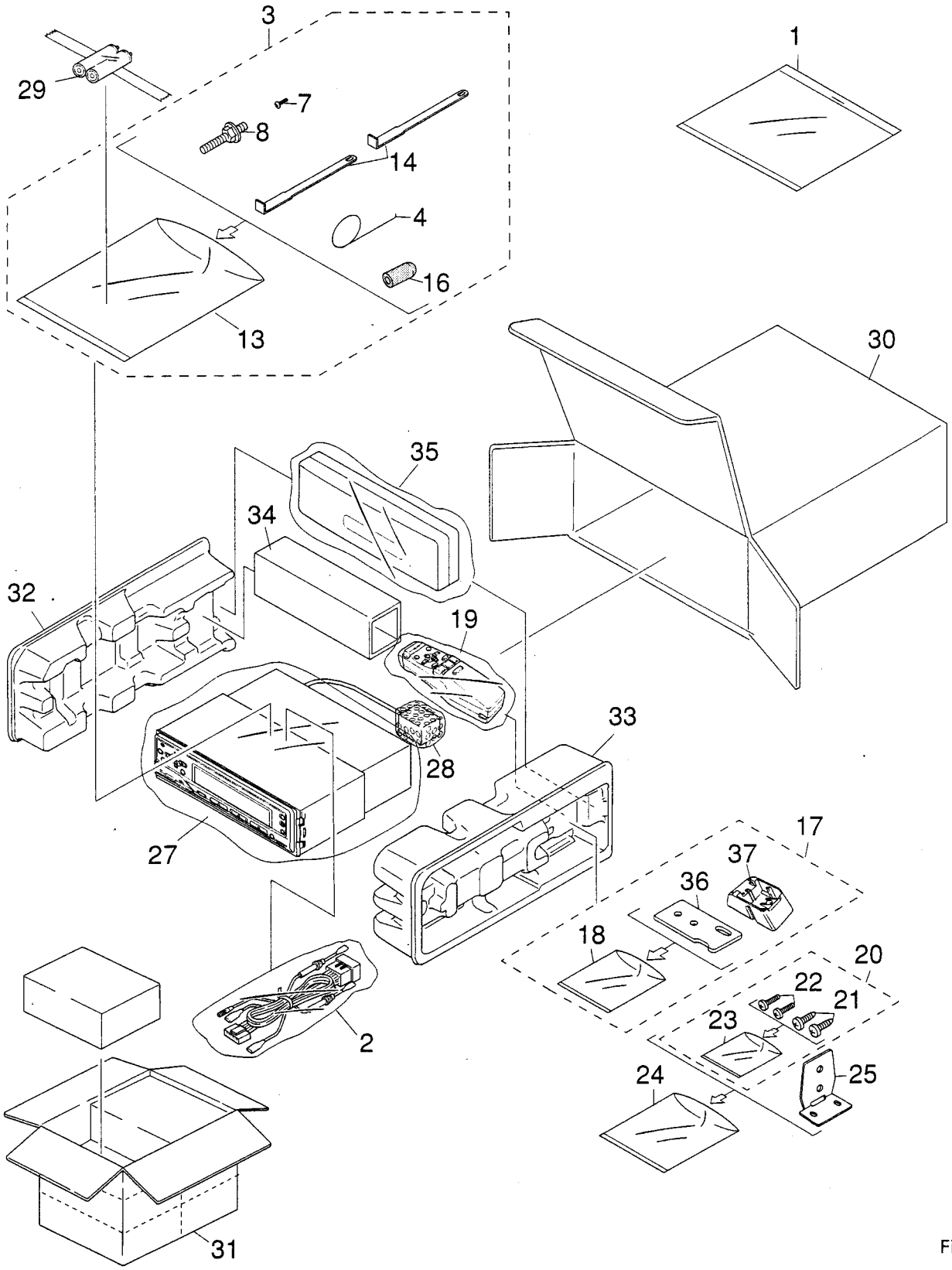



Fig. 1

# DEH-P835R,P735R

**NOTE:**

- Parts marked by " * "are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ▼ mark on the product are used for disassembly.

**(1)PARTS LIST**

| Mark | No. | Description | Part No. |
|---|---|---|---|
| | 1-1 | Owner's Manual | See Contrast table(2) |
| | 1-2 | Owner's Manual | See Contrast table(2) |
| | 1-3 | Owner's Manual | See Contrast table(2) |
| | 1-4 | Installation Manual | See Contrast table(2) |
| | 1-5 | Installation Manual | See Contrast table(2) |
| | 1-6 | Installation Manual | See Contrast table(2) |
| * | 1-7 | Caution Card | CRP1145 |
| * | 1-8 | Label | CRW1343 |
| | 1-9 | Passport | CRY1013 |
| * | 1-10 | Wrranty Cordt | CRY1087 |
| | 1-11 | Polyethylene Bag | CEG1116 |
| | 2 | Cord Assy | CDE5250 |
| | 3 | Accessory Assy | CEA2065 |
| | 4 | Spring | CBH-865 |
| | 5,6 | ••••• | |
| | 7 | Screw | CBA1120 |
| | 8 | Screw | CBA1284 |
| | 9-12 | ••••• | |
| * | 13 | Polyethylene Bag | E36-615 |
| | 14 | Handle | CNC5395 |
| | 15 | ••••• | |
| | 16 | Bush | CNV1009 |
| | 17 | Base Assy | CEA2344 |
| | 18 | Polyethylene Bag | CZE3188 |
| | 19 | Remote Control Assy | See Contrast table(2) |
| | 20 | Screw Assy | CZE3198 |
| | 21 | Screw | BNC40P120FZK |
| | 22 | Screw | BPZ30P100FZK |
| * | 23 | Polyethylene Bag | CEG-127 |
| * | 24 | Polyethylene Bag | CZE3201 |
| | 25 | Bracket | CZN6467 |
| | 27 | Polyethylene Bag | CEG-162 |
| | 28 | Air Cushioned Bag | CEG1192 |
| | 29 | Battery | CEX1006 |
| | 30 | Carton | See Contrast table(2) |
| | 31 | Contain Box | See Contrast table(2) |
| | 32 | Protector | CHP1766 |
| | 33 | Protector | CHP1767 |
| | 34 | Spacer | CHW1433 |
| | 35 | Case Assy | CXA7194 |
| * | 36 | Sheet | CZA3371 |
| * | 37 | Base | CZN6466 |

**(2) CONTRAST TABLE**

**DEH-P835R/EW and DEH-P735R/EW have the same construction except for the following:**

| Mark No. | Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P735R/EW |
|---|---|---|---|
| 1-1 | Owner's Manual | CRD2353 | CRD2358 |
| 1-2 | Owner's Manual | CRD2354 | CRD2359 |
| 1-3 | Owner's Manual | CRD2355 | CRD2360 |
| 1-4 | Installation Manual | CRD2357 | CRD2361 |
| 1-5 | Installation Manual | CRD2472 | CRD2476 |
| 1-6 | Installation Manual | CRD2473 | CRD2477 |
| 19 | Remote Control Assy | CXB1159 | CXB1160 |
| 30 | Carton | CHG3281 | CHG3285 |
| 31 | Contain Box | CHL3281 | CHL3285 |

**● Owner's Manual, Installation Manual**

| Model | Part No. | Language |
|---|---|---|
| DEH-P835R/EW | CRD2353 | English, Spanish |
| | CRD2354 | French, German |
| | CRD2355 | Italian, Dutch |
| | CRD2357 | English, Spanish |
| | CRD2472 | French, German |
| | CRD2473 | Italian, Dutch |
| DEH-P735R/EW | CRD2358 | English, Spanish |
| | CRD2359 | French, German |
| | CRD2360 | Italian, Dutch |
| | CRD2361 | English, Spanish |
| | CRD2476 | French, German |
| | CRD2477 | Italian, Dutch |

## 2.2 EXTERIOR

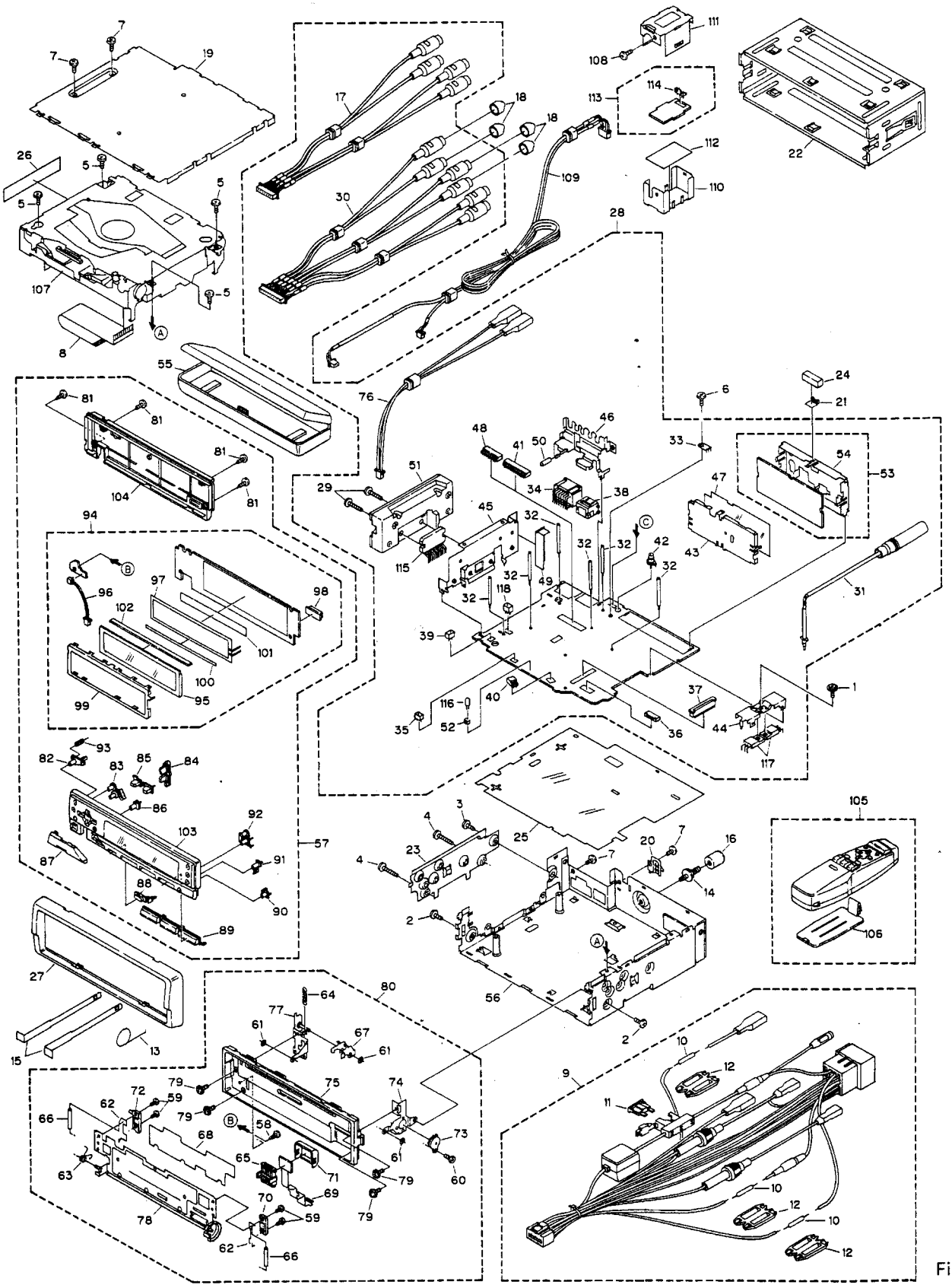


Fig. 2

## ● EXTERIOR

### (1)PARTS LIST

| Mark No. | Description | Part No. |
|---|---|---|
| 1 | Screw | ASZ26P080FMC |
| 2 | Screw | BMZ30P040FMC |
| 3 | Screw | BMZ30P050FMC |
| 4 | Screw | BMZ30P180FMC |
| 5 | Screw | BSZ26P050FMC |
| 6 | Screw | BSZ30P055FUC |
| 7 | Screw | BSZ30P060FMC |
| 8 | Connector | CDE4864 |
| 9 | Cord Assy | CDE5250 |
| 10 | Resistor | RS1/2PMF102J |
| 11 | Fuse(10A) | CEK1136 |
| 12 | Cap | CNS1472 |
| 13 | Spring | CBH-865 |
| 14 | Screw | CBA1284 |
| 15 | Handle | CNC5395 |
| 16 | Bush | CNV1009 |
| 17 | Cord | See Contrast table(2) |
| 18 | Cap | See Contrast table(2) |
| 20 | Holder | CNC4963 |
| 21 | Holder | CNC6469 |
| 22 | Holder | CNC6798 |
| 23 | Holder | CNC6924 |
| 24 | Cushion | CNM4870 |
| 25 | Insulator | CNM5143 |
| 26 | Spacer | CNM5304 |
| 27 | Panel | CNS4320 |
| 28 | Tuner Amp Unit | See Contrast table(2) |
| 29 | Screw | BSZ26P160FMC |
| 30 | Cord | See Contrast table(2) |
| 31 | Antenna Cable | CDH1146 |
| 32 | Clamper | CEF1006 |
| 33 | Terminal(CN404) | CKF1059 |
| 34 | Plug(CN901) | CKM1187 |
| 35 | Plug(CN802) | CKS-783 |
| 36 | Connector(CN801) | CKS2212 |
| 37 | Connector(CN991) | CKS2774 |
| 38 | Connector(CN101) | CKS3408 |
| 39 | Connector(CN804) | CKS3582 |
| 40 | Connector(CN803) | CKS3596 |
| 41 | Connector(CN353) | See Contrast table(2) |
| 42 | Mini Pin Jack(CN403) | CKX1046 |
| 43 | Holder | CNC6356 |
| 44 | Holder | CNC6431 |
| 45 | Holder | CNC6923 |

| Mark No. | Description | Part No. |
|---|---|---|
| 46 | Bracket | See Contrast table(2) |
| 47 | Insulator | CNM4684 |
| 48 | Connector(CN353) | See Contrast table(2) |
| 49 | Spacer | CNM5305 |
| 50 | Spacer | CNM5306 |
| 51 | Heat Sink | CNR1451 |
| 52 | Holder | CNV1906 |
| 53 | FM/AM Tuner Unit | CWE1416 |
| 54 | Holder | CNC6554 |
| 55 | Case Assy | CXA7194 |
| 56 | Chassis Unit | See Contrast table(2) |
| 57 | Panel Assy | CXA9951 |
| 58 | Screw | BPZ20P060FMC |
| 59 | Screw | CBA1082 |
| 60 | Screw | CBA1176 |
| 61 | Washer | CBF1001 |
| 62 | Spring | CBH1528 |
| 63 | Spring | CBH1660 |
| 64 | Spring | CBH1696 |
| 65 | Connector | CKS2780 |
| 66 | Roller | CLA3023 |
| 67 | Arm | CNC7130 |
| 68 | Sheet | CNM5142 |
| 69 | P.C.Board | CNP3847 |
| 70 | Holder | CNV2141 |
| 71 | Cover | CNV3965 |
| 72 | Holder | CNV4979 |
| 73 | Damper Unit | CXA7159 |
| 74 | Holder Unit | CXA7794 |
| 75 | Panel Unit | CXA9803 |
| 76 | Cord Assy | CDE5372 |
| 77 | Holder Unit | CXA9806 |
| 78 | Holder Unit | CXA9807 |
| 79 | Screw | IMS20P040FZK |
| 80 | Detach Grille Assy | See Contrast table(2) |
| 81 | Screw | BPZ20P080FZK |
| 82 | Button(○) | CAC4971 |
| 83 | Button(F A) | CAC4972 |
| 84 | Button(▲,▼) | CAC4973 |
| 85 | Button(◄,►) | CAC4974 |
| 86 | Button(B A) | CAC4975 |
| 87 | Button(- +) | CAC4976 |
| 88 | Button(SOURCE) | CAC4977 |
| 89 | Button(1-6) | CAC5379 |
| 90 | Button(D) | CAC4979 |

| Mark No. | Description | Part No. |
|---|---|---|
| 91 | Button(P) | CAC4980 |
| 92 | Button | CAC4981 |
| 93 | Spring | CBH1844 |
| 94 | Keyboard Unit | See Contrast table(2) |
| 95 | LCD | See Contrast table(2) |
| 96 | Cord | CDE4387 |
| 97 | EL(CN1902) | CEL1493 |
| 98 | Connector(CN1901) | CKS2733 |
| 99 | Holder | CNC6920 |
| 100 | Spacer | CNM5449 |
| 101 | Double Side Seal | CNM5301 |
| 102 | Connector | CNV4817 |
| 103 | Grille Unit | See Contrast table(2) |
| 104 | Cover Unit | CXA9802 |
| 105 | Remote Control Assy | See Contrast table(2) |

| Mark No. | Description | Part No. |
|---|---|---|
| 106 | Battery Cover | CNS4406 |
| 107 | CD Mecanism Module(S7) | CXK5001 |
| 108 | Screw | BSZ26P050FMC |
| 109 | Cord | MDE9009 |
| 110 | Holder | MNC9001 |
| 111 | Holder | MNC9002 |
| 112 | Insulator | MNM9001 |
| 113 | Inverter Unit | MWM9001 |
| 114 | Plug(CN101) | CKS1224 |
| 115 | IC(IC171) | TDA7386 |
| 116 | Lamp(IL801) | CEL1263 |
| 117 | Transistor(Q941,992) | 2SD2396 |
| 118 | Connector(CN651) | CKS3583 |

## (2) CONTRAST TABLE

**DEH-P835R/EW and DEH-P735R/EW have the same construction except for the following:**

| Mark No. | Symbol & Description | Part No. | |
|---|---|---|---|
| | | DEH-P835R/EW | DEH-P735R/EW |
| 17 | Cord(4P) | Not used | CDE5244 |
| 18 | Cap | CNV2680(4) | Not used |
| 28 | Tuner Amp Unit | CWM5048 | CWM5053 |
| 30 | Cord | CDE5247 | Not used |
| 41 | Connector(CN353) | CKS3606 | Not used |
| 46 | Bracket | CNC6952 | CNC7131 |
| 48 | Connector(CN353) | Not used | CKS3602 |
| 56 | Chassis Unit | CXA9808 | CXA9812 |
| 80 | Detach Grille Assy | CXA9967 | CXA9973 |
| 94 | Keyboard Unit | CWM5062 | CWM5416 |
| 95 | LCD | CAW1403 | CAW1404 |
| 103 | Grille Unit | CXA9789 | CXA9799 |
| 105 | Remote Control Assy | CXB1159 | CXB1160 |

## 2.3 CD MECHANISM MODULE

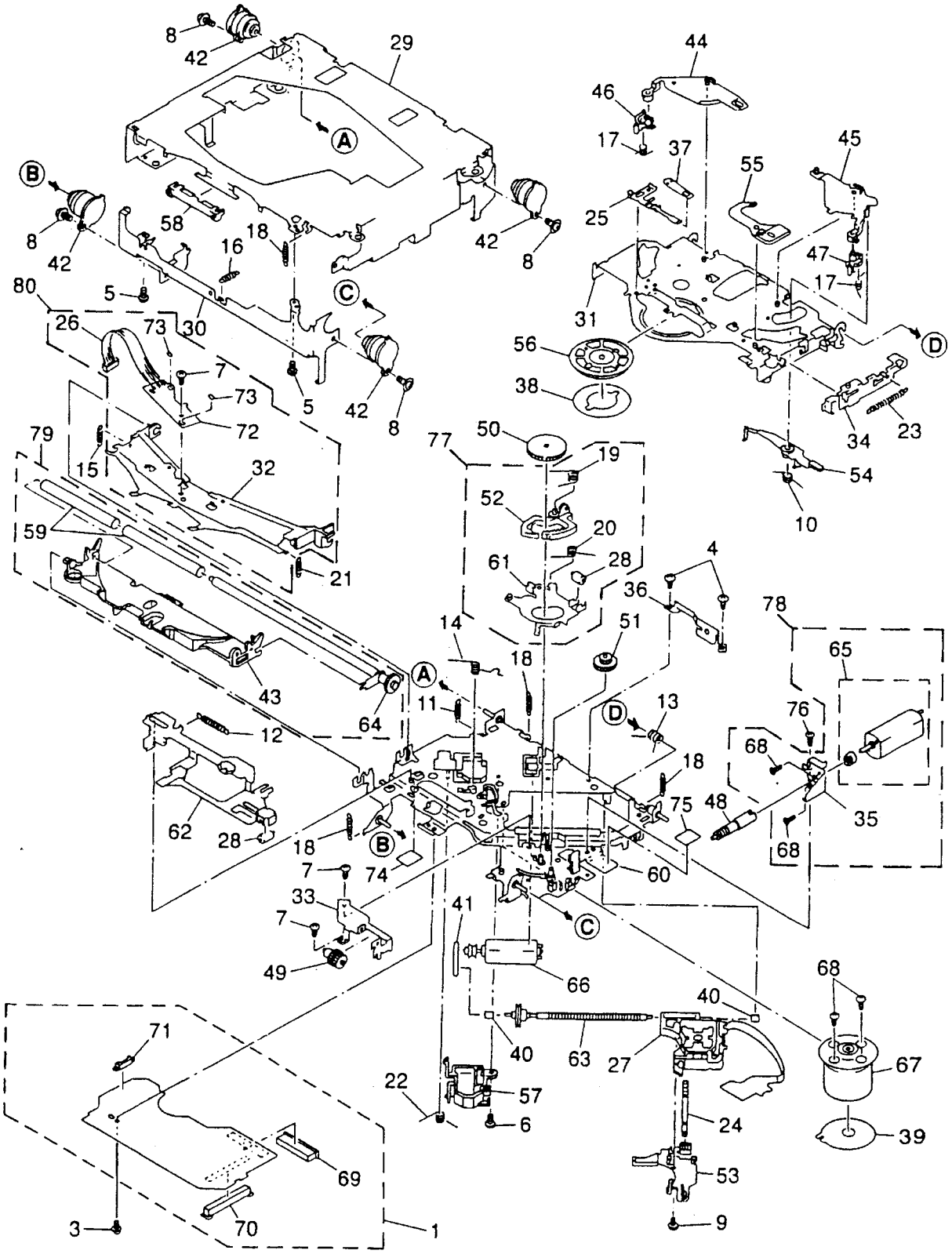



Fig. 3

## ● CD MECHANISM MODULE

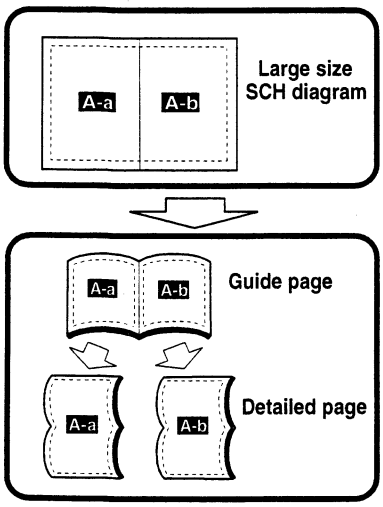
## ● PARTS LIST

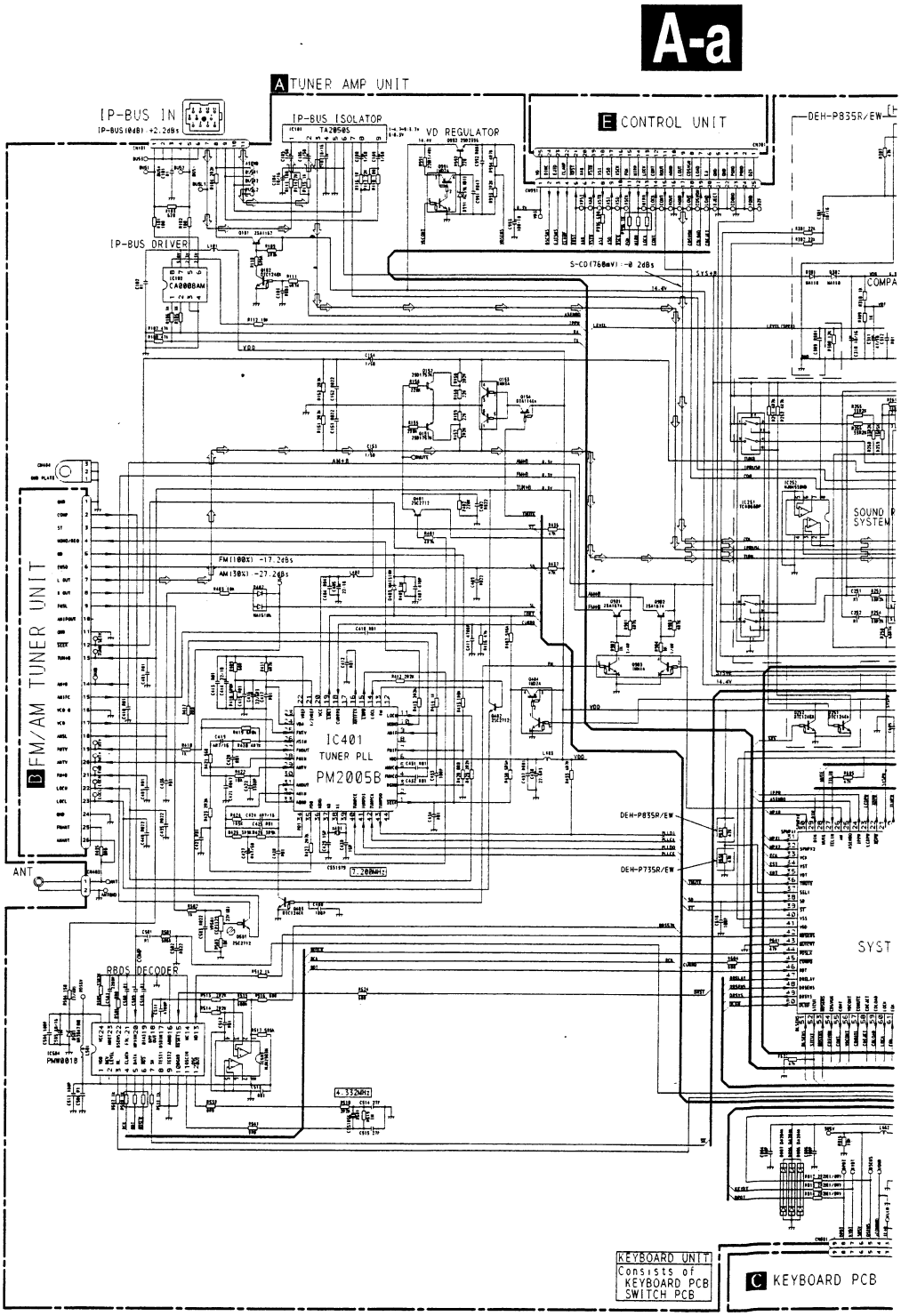
| Mark | No. | Description | Part No. |
|---|---|---|---|
| | 1 | Control Unit | CWX1889 |
| | 2 | ••••• | |
| | 3 | Screw | IMS26P035FMC |
| | 4 | Screw | BMZ20P040FMC |
| | 5 | Screw | BSZ20P040FMC |
| | 6 | Screw(M2×3) | CBA1077 |
| | 7 | Screw(M2×2) | CBA1250 |
| | 8 | Screw(M2×5) | CBA1296 |
| | 9 | Screw(M2×3.85) | CBA1362 |
| | 10 | Spring | CBH1945 |
| | 11 | Spring | CBH1724 |
| | 12 | Spring | CBH1939 |
| | 13 | Spring | CBH1729 |
| | 14 | Spring | CBH1730 |
| | 15 | Spring | CBH1731 |
| | 16 | Spring | CBH1732 |
| | 17 | Spring | CBH1736 |
| | 18 | Spring | CBH1745 |
| | 19 | Spring | CBH1832 |
| | 20 | Spring | CBH1833 |
| | 21 | Spring | CBH1848 |
| | 22 | Spring | CBH1849 |
| | 23 | Spring | CBH1863 |
| | 24 | Spring | CBL1214 |
| | 25 | Spring | CBL1269 |
| | 26 | Connector(CN1) | CDE4576 |
| | 27 | Pickup Unit(Service) | CXX1230 |
| | 28 | Roller | CLA2627 |
| | 29 | Frame | CNC5796 |
| | 30 | Frame | CNC5797 |
| | 31 | Arm | CNC5799 |
| | 32 | Arm | CNC5801 |
| | 33 | Bracket | CNC5871 |
| | 34 | Lever | CNC6054 |
| | 35 | Bracket | CNC6056 |
| * | 36 | Bracket | CNC6376 |
| | 37 | Spacer | CNM3315 |
| | 38 | Sheet | CNM4849 |
| | 39 | PCB | CNP4230 |
| | 40 | Bearing | CNR1415 |
| | 41 | Belt | CNT1071 |
| | 42 | Damper | CNV3974 |
| | 43 | Arm | CNV4120 |
| | 44 | Arm | CNV4122 |
| | 45 | Arm | CNV4123 |
| | 46 | Arm | CNV4124 |
| | 47 | Arm | CNV4125 |
| | 48 | Gear | CNV4128 |
| | 49 | Gear | CNV4129 |
| | 50 | Gear | CNV4130 |
| | 51 | Gear | CNV4131 |
| | 52 | Arm | CNV4136 |
| | 53 | Holder | CNV4663 |
| | 54 | Arm | CNV4138 |
| | 55 | Arm | CNV4139 |
| | 56 | Clamper | CNV4140 |
| | 57 | Holder | CNV4664 |
| | 58 | Guide | CNV4484 |
| | 59 | Roller | CNV4509 |
| | 60 | Chassis Unit | CXA9515 |
| | 61 | Arm Unit | CXA8565 |
| | 62 | Lever Unit | CXA9300 |
| | 63 | Screw Unit | CXA8699 |
| | 64 | Gear Unit | CXA8701 |
| | 65 | Load Motor Unit(M3) | CXA8702 |
| | 66 | CRG Motor Unit(M2) | CXA8986 |
| | 67 | Motor Unit(M1) | CXA8912 |
| | 68 | Screw | JFZ20P025FMC |
| | 69 | Connector(CN101) | CKS1953 |
| | 70 | Connector(CN701) | CKS2774 |
| | 71 | Connector(CN801) | CKS2196 |
| * | 72 | Gathering PCB | CNX2445 |
| | 73 | Photo-transistor(Q1, 2) | CPT-230S-X |
| | 74 | Sheet | CNM4873 |
| | 75 | Cushion | CNM3917 |
| | 76 | Screw | BMZ20P025FMC |
| | 77 | ELBO Arm Assy | CXA8889 |
| | 78 | Load Motor Assy | CXA8891 |
| | 79 | LO Arm Assy | CXA8892 |
| | 80 | Guide Arm Assy | CXA8893 |

# 3. SCHEMATIC DIAGRAM

## 3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

**Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".**



# A-b

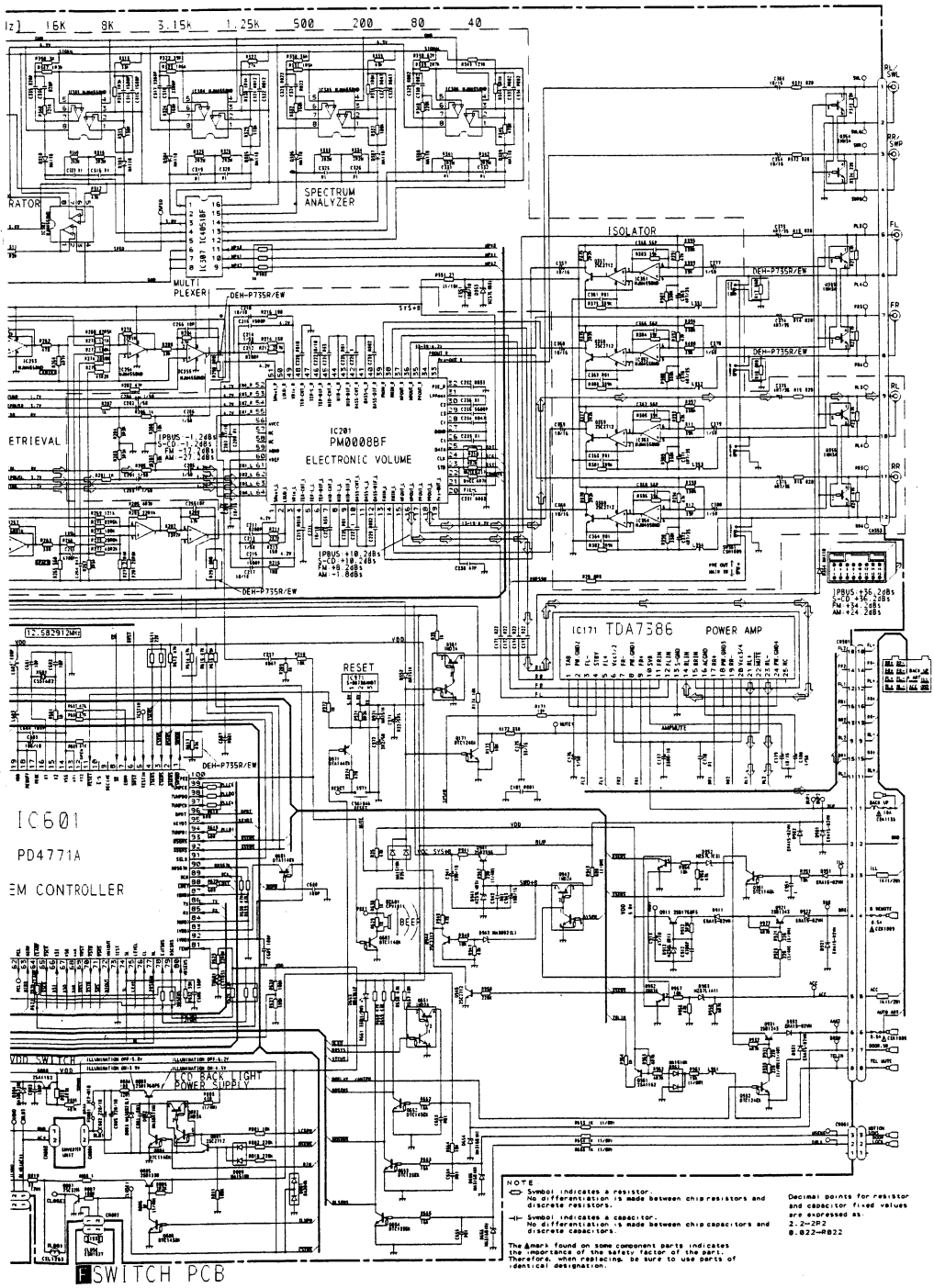
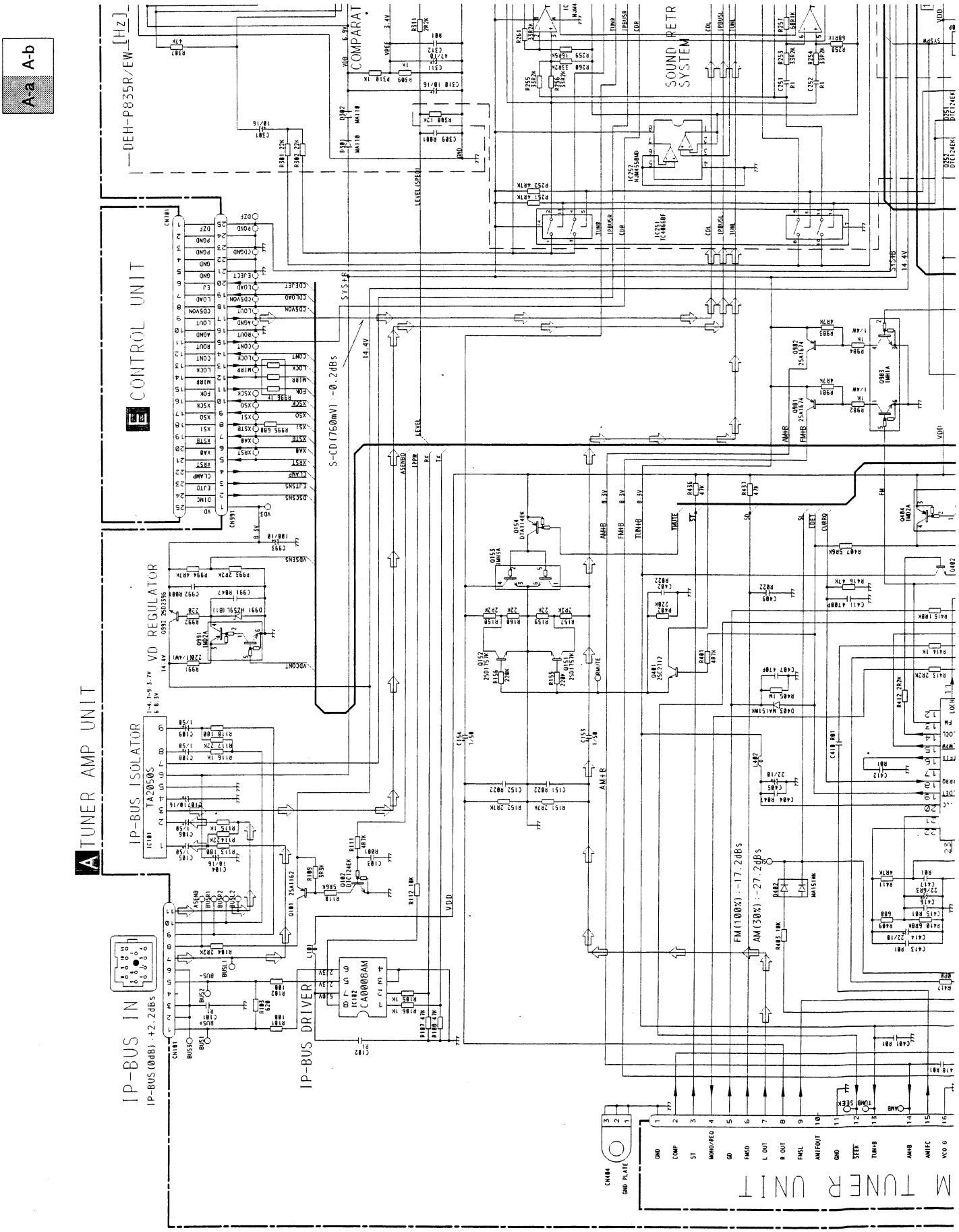

SPECTRUM ANALYZER
MULTI PLEXER
DEH-P735R/EW
IC201 PM0008BF ELECTRONIC VOLUME
ISOLATOR
IC171 TDA7386 POWER AMP
RESET
IC601
PD4771A
EM CONTROLLER
BEEP
VDD SWITCH
LCD BACK LIGHT POWER SUPPLY
SWITCH PCB
NOTE
Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
The Δmark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
Decimal points for resistor and capacitor fixed values are expressed as: 2.2→2R2 0.022→R022

Fig. 4


A-a
A-b
A TUNER AMP UNIT
CONTROL UNIT
IP-BUS ISOLATOR
TA2050S
VD REGULATOR
IP-BUS IN
IP-BUS(0dB) +2.2dBs
IP-BUS DRIVER
COMPARAT
SOUND RETR SYSTEM
S-CD(760mV) : -0.2dBs
FM(100%) : -17.2dBs
AM(30%) : -27.2dBs
M TUNER UNIT
GND
COMP
ST
MONO/REC
GD
FMSD
L OUT
R OUT
FMSL
AMIFOUT
GND
SEEK
TUN+B
AMB
AMIFC
VCO G
GND PLATE

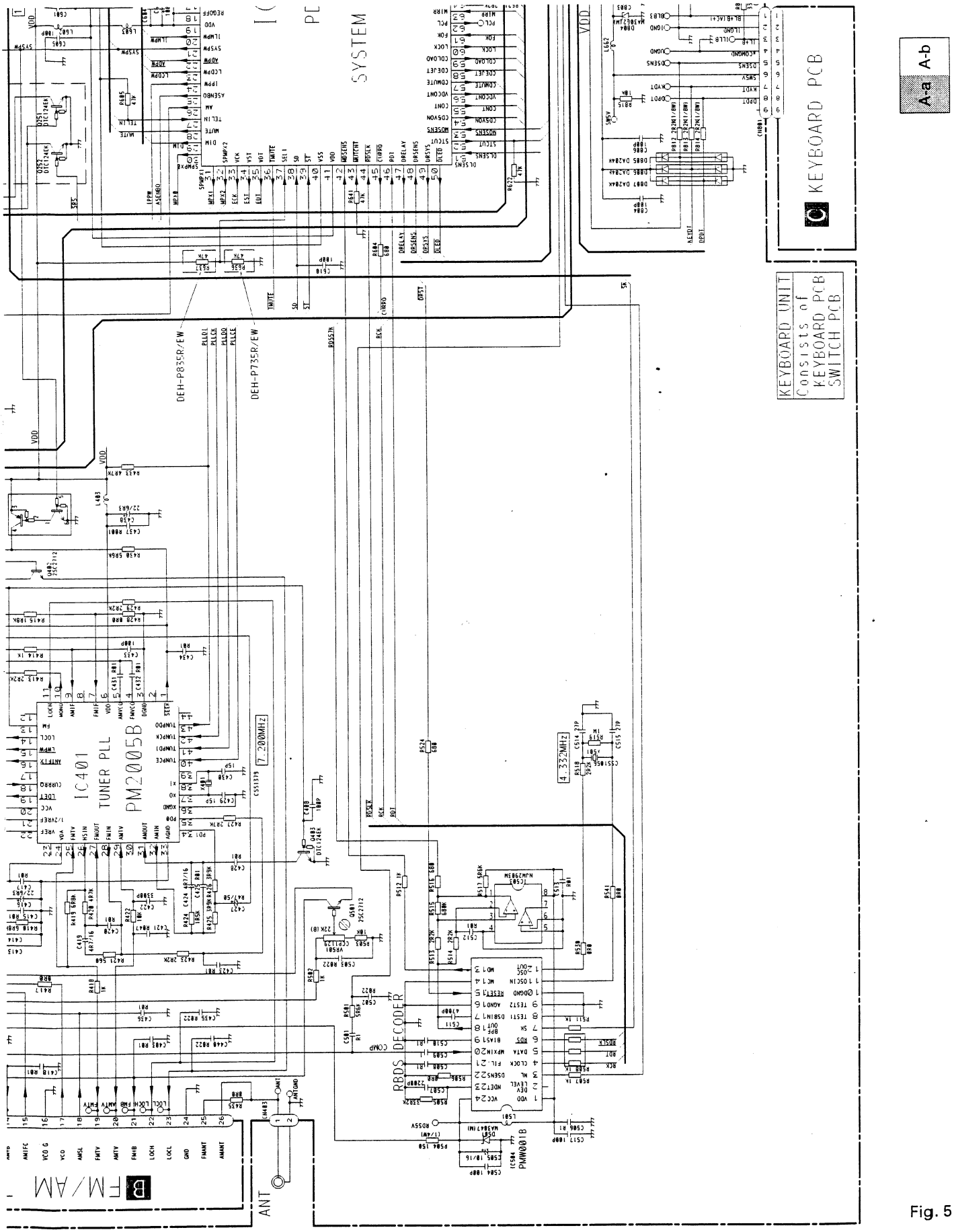
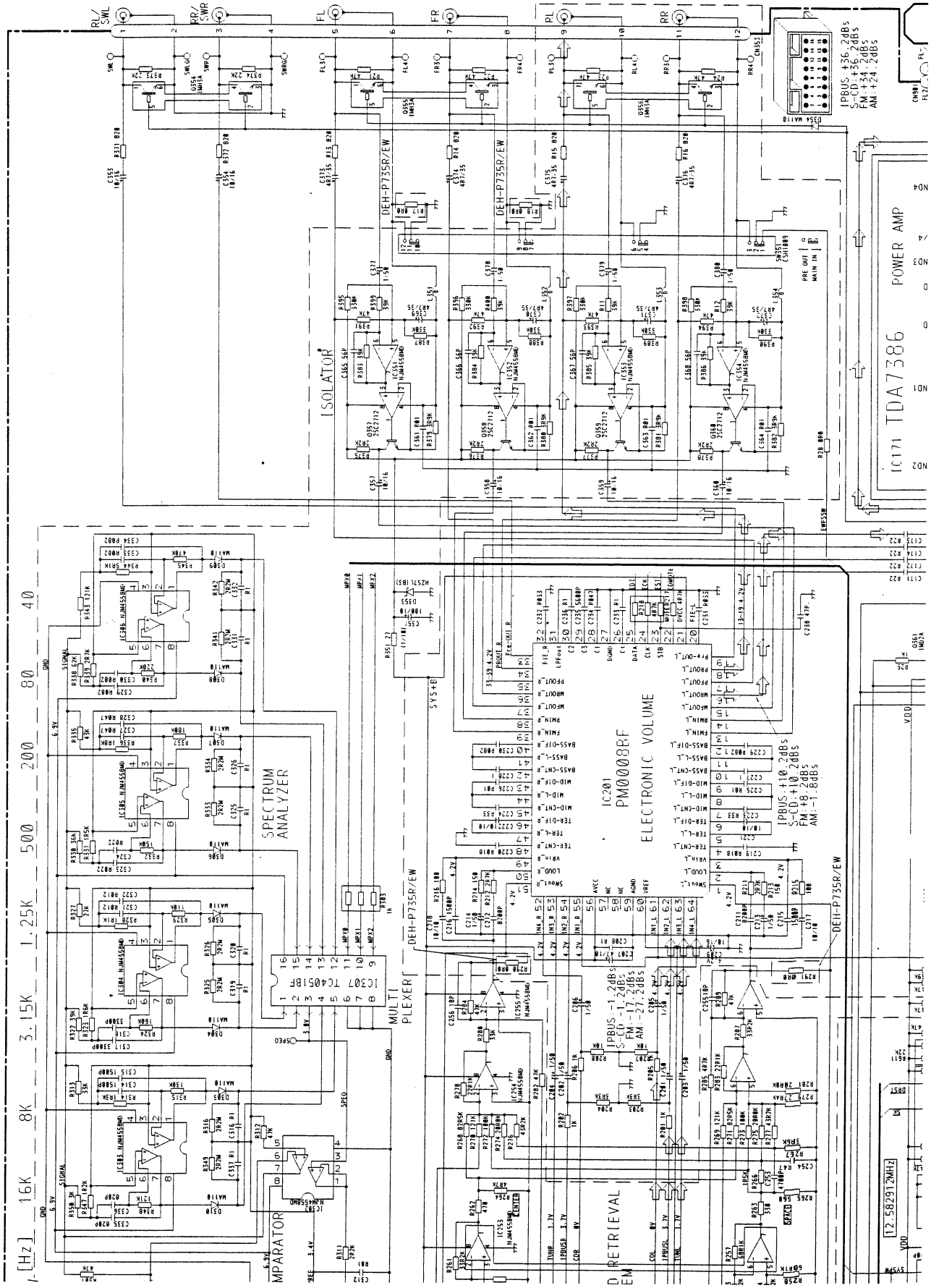
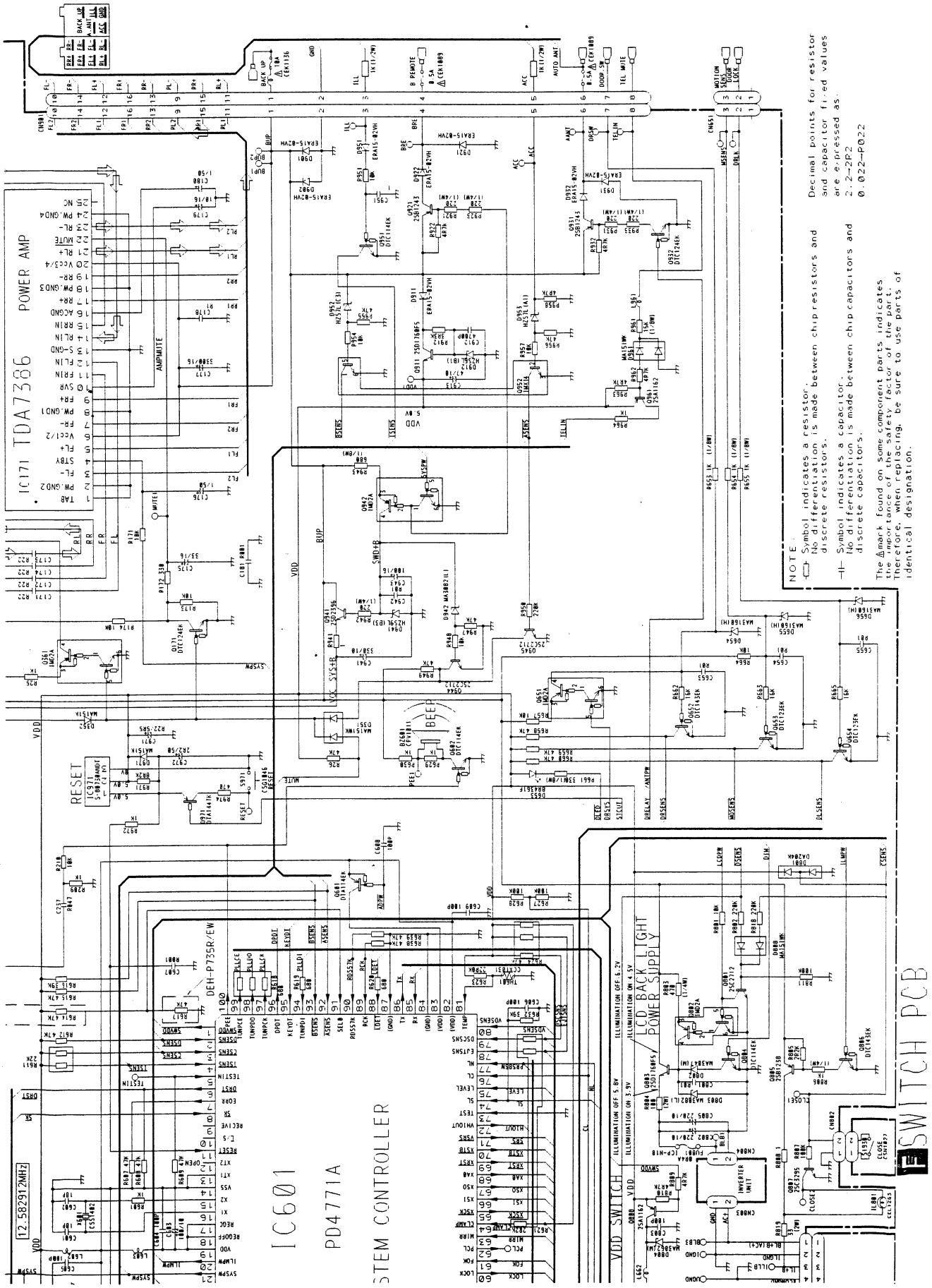

SYSTEM
KEYBOARD PCB
KEYBOARD UNIT
Consists of
KEYBOARD PCB
SWITCH PCB
DEH-P835R/EW
DEH-P735R/EW
IC401
TUNER PLL
PM2005B
7.200MHz
4.332MHz
RBDS DECODER
PKW0018
FM/AM
ANT
A-a
A-b

Fig. 5

A-b
A-a

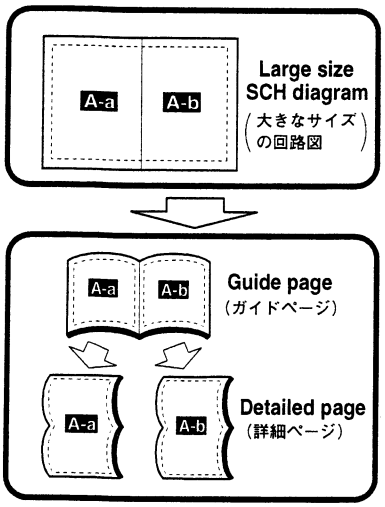

RL/SWL
RR/SWR
FL
FR
PL
RR
IPBUS: +36.2dBs
S-CD: +36.2dBs
FM: +34.2dBs
AM: +24.2dBs
IC171 TDA7386 POWER AMP
[SOLATOR
DEH-P735R/EW
SPECTRUM ANALYZER
MULTI PLEXER
IC307 TC40S18F
IC201 PM0000BF
ELECTRONIC VOLUME
IPBUS: +10.2dBs
S-CD: +10.2dBs
FM: +8.2dBs
AM: -1.8dBs
IPBUS: -1.2dBs
S-CD: -1.2dBs
FM: -17.2dBs
AM: -27.2dBs
MPARATOR
D RETRIEVAL
EM
12.582912MHz
16K
8K
3.15K
1.25K
500
200
80
40

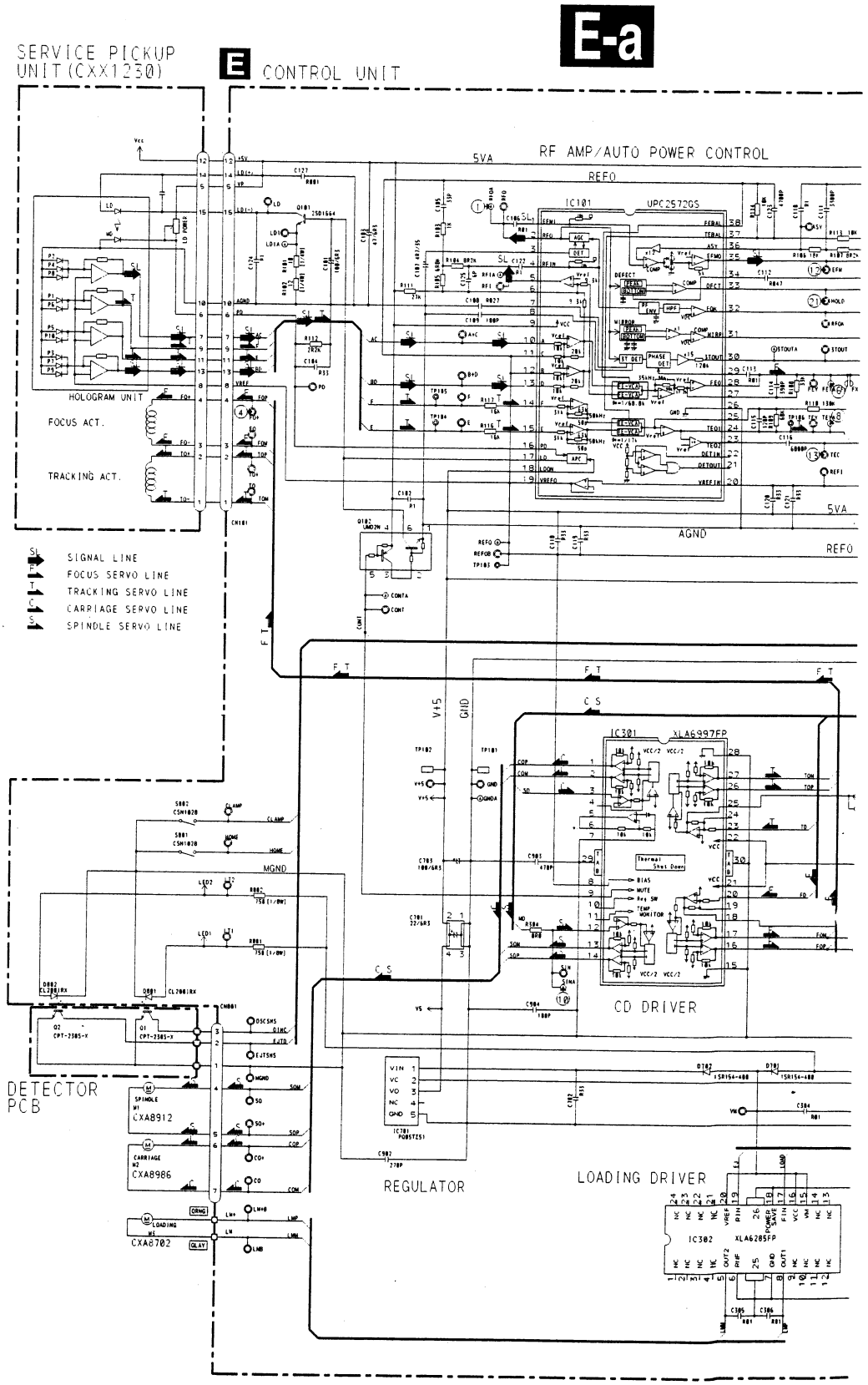

IC171 TDA7366 POWER AMP
IC601 PD4771A SYSTEM CONTROLLER
DEH-P735R/EW
RESET
IC971
12.582912MHz
VDD SWITCH
LCD BACK LIGHT POWER SUPPLY
INVERTER UNIT
SWITCH PCB
NOTE :
Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→P022

A-a A-b

Fig. 6

## 3.2 CD MECHANISM MODULE(GUIDE PAGE)



# E-b

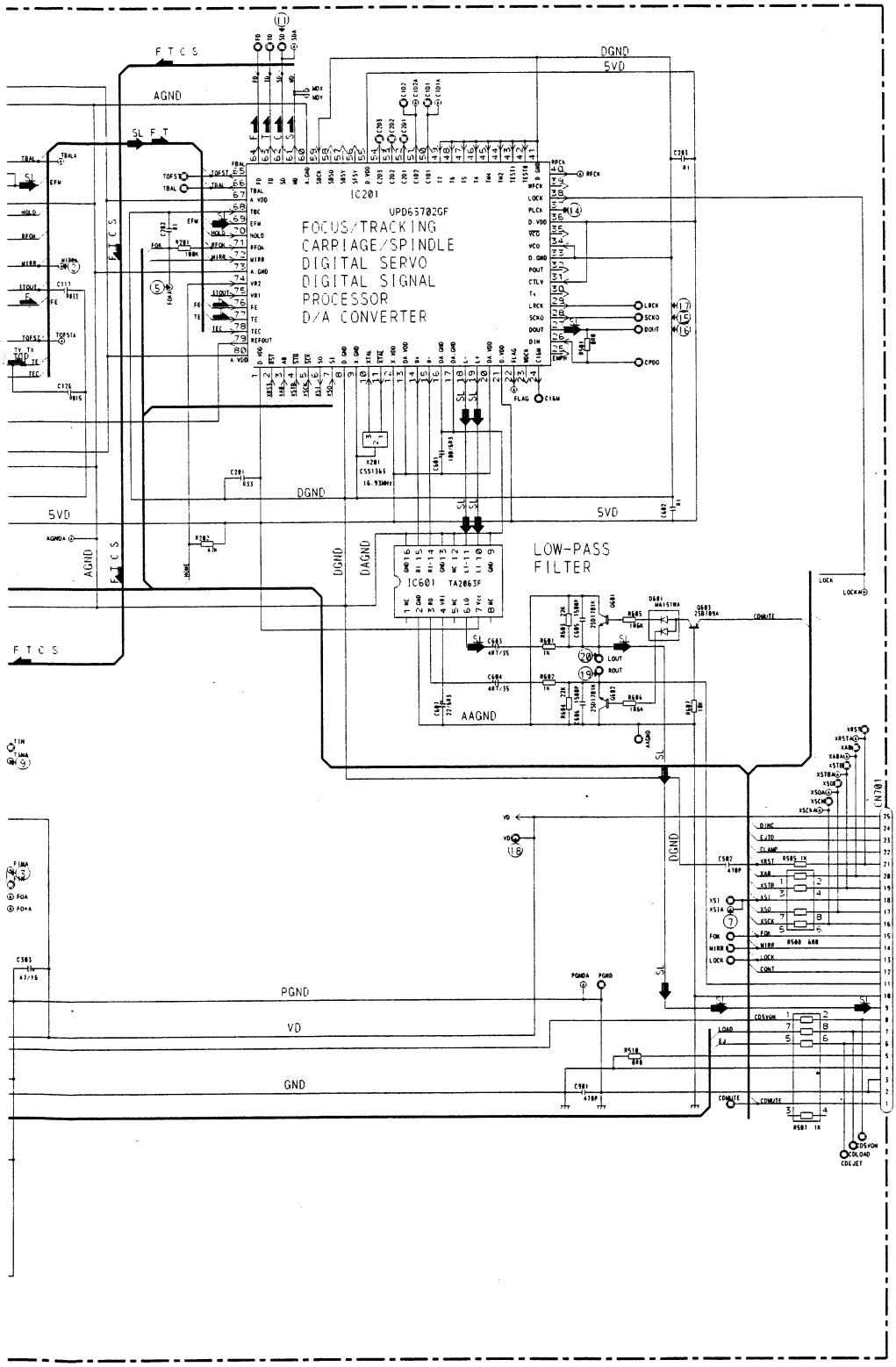
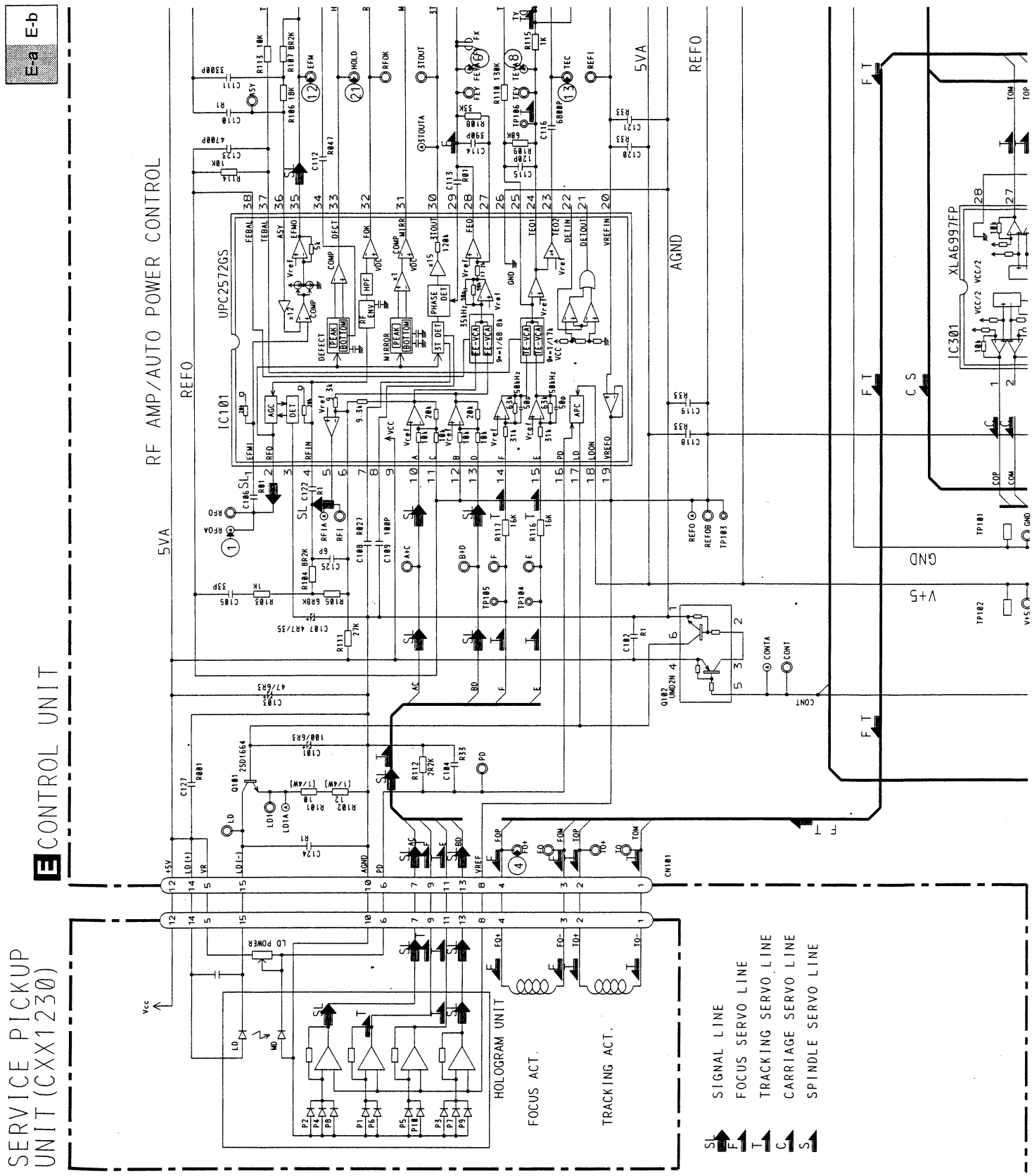
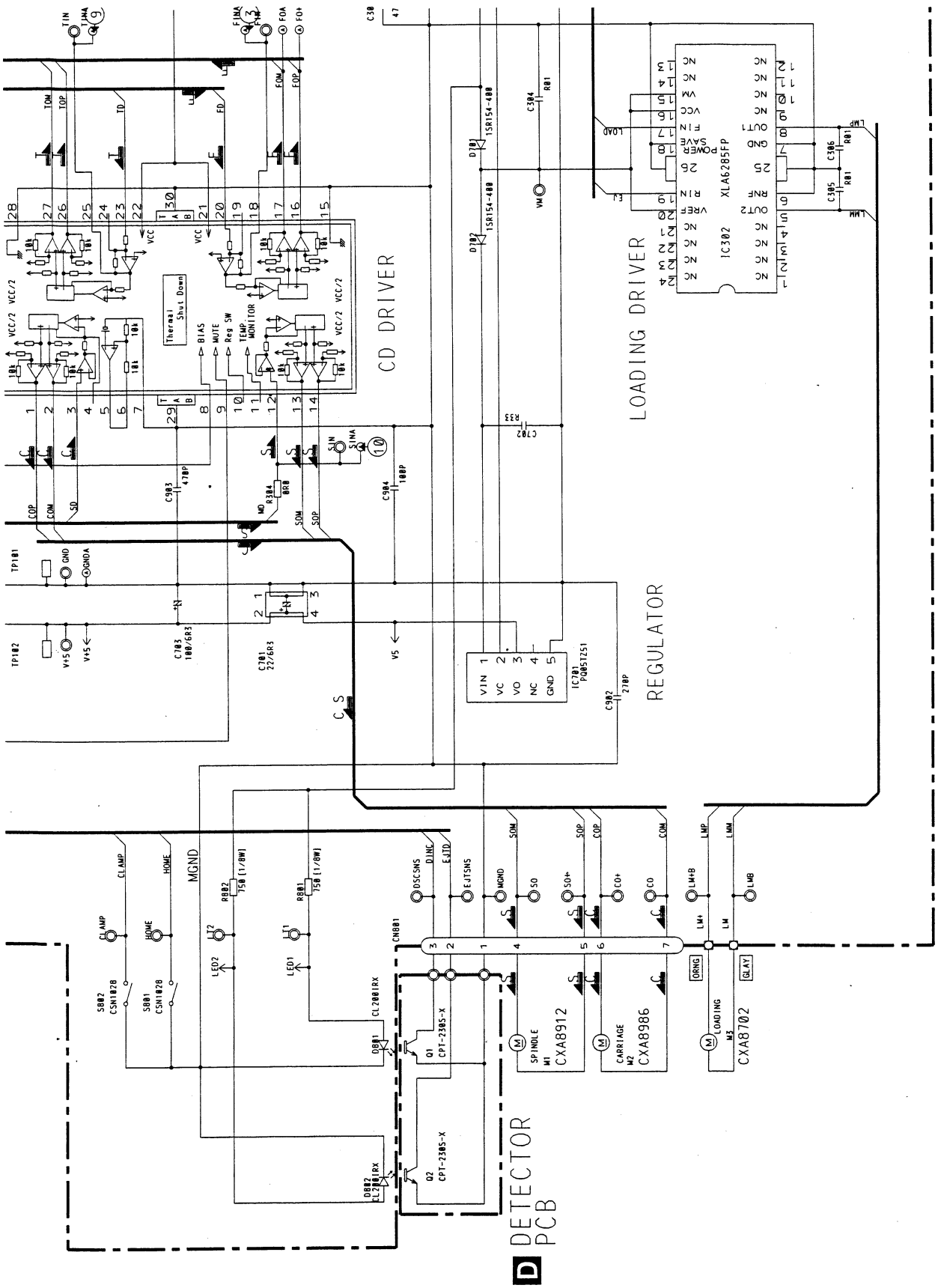

FTCS
AGND
SLFT
DGND
5VD
IC201
UPD65702GF
FOCUS/TRACKING
CARRIAGE/SPINDLE
DIGITAL SERVO
DIGITAL SIGNAL
PROCESSOR
D/A CONVERTER
LOW-PASS
FILTER
IC601 TA2063F
AAGND
PGND
VD
GND
CN701
CN991

Fig. 7

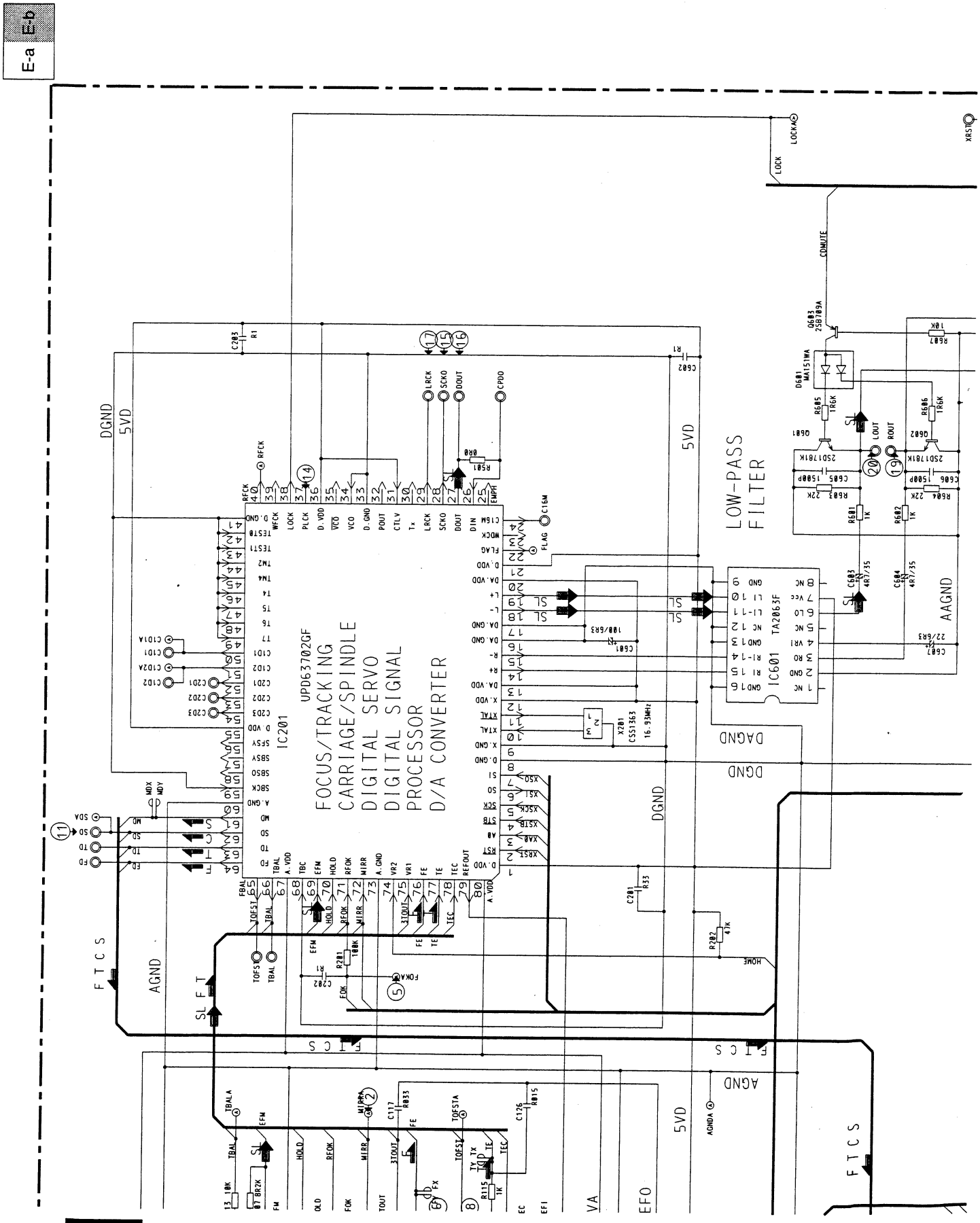

E-a
E-b
E CONTROL UNIT
RF AMP/AUTO POWER CONTROL
UPC2572GS
IC101
REFO
5VA
AGND
IC301
XLA6997FP
SERVICE PICKUP
UNIT (CXX1230)
HOLOGRAM UNIT
FOCUS ACT.
TRACKING ACT.
SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE




SWITCHES:
CONTROL UNIT
S801:HOME SWITCH.....ON-OFF
S802:CLAMP SWITCH.....ON-OFF
The underlined indicates the switch position.

E-a E-b

Fig. 8


E-a
E-b
IC201
UPD63702GF
FOCUS/TRACKING
CARRIAGE/SPINDLE
DIGITAL SERVO
DIGITAL SIGNAL
PROCESSOR
D/A CONVERTER
IC6601
TA2063F
LOW-PASS
FILTER
5VD
DGND
AGND
DAGND
LOCK
XRST
COMMUTE
LOUT
ROUT
HOME
FTCS
SLFT
SDA
SCL
MDX
MDY
LRCK
SCKO
DOUT
CPDO
RFCK
FLAG
C16M
EMPH
TBAL
TOFS1
FOK
TOUT
FM
OLD
EC
EFI
VA
EFO
AGNDA

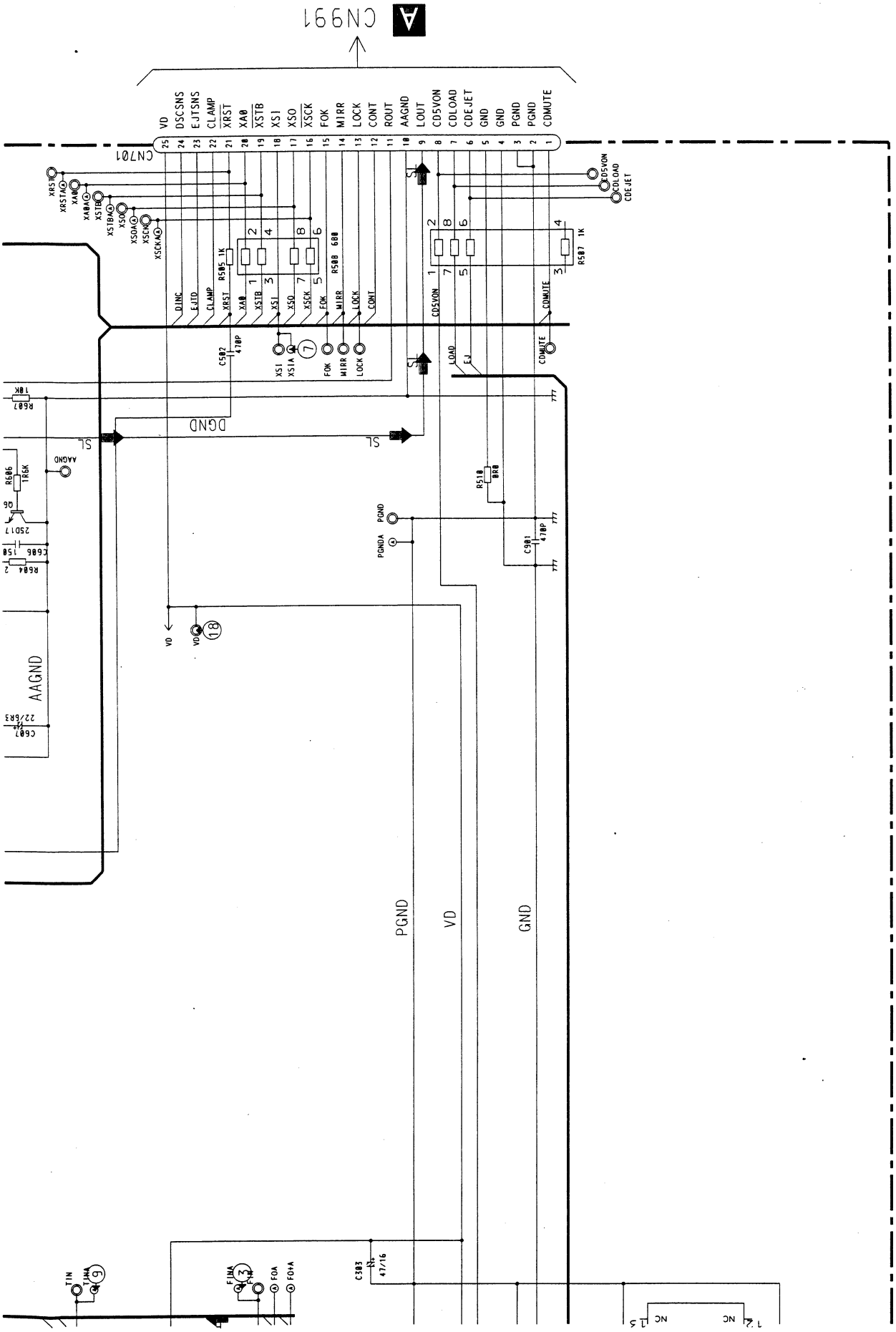
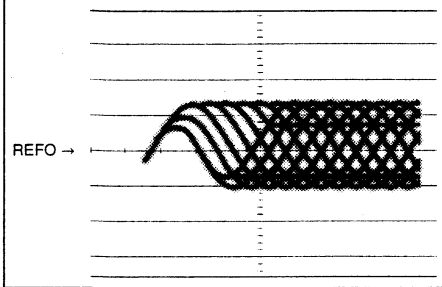

A CN991
CN701
VD
DSCSNS
EJTSNS
CLAMP
XRST
XA0
XSTB
XS1
XSO
XSCK
FOK
MIRR
LOCK
CONT
ROUT
AAGND
LOUT
CD5VON
CDLOAD
CDEJET
GND
GND
PGND
PGND
CDMUTE
XRSTA
XA0A
XSTBA
XSOA
XSCKA
R585 1K
R588 680
R587 1K
C502 470P
XS1A
DGND
SL
AAGND
R606 18K
Q6
2SD17
C686 150
R604 2
R601 10K
C697 22/6R3
R510 8R8
C901 470P
PGNDA
LOAD
EJ
VD
AAGND
PGND
GND
TIN
TINA
FINA
FOA
FO+A
C303 47/16
NC
NC

Fig. 9

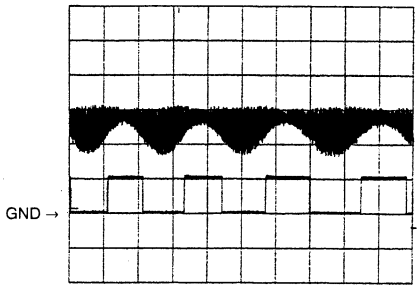
Note:1. The encircled numbers denote measuring pointes in the circuit diagram.
2. Reference voltage
REFO:2.5V

## ● Waveforms

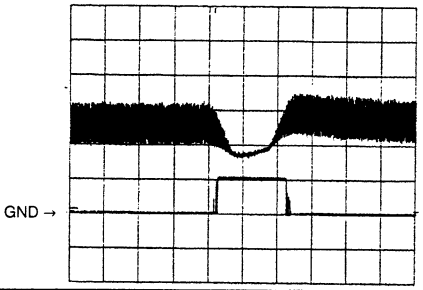
① RFO 0.5V/div. 0.5μs/div.
Normal mode: play



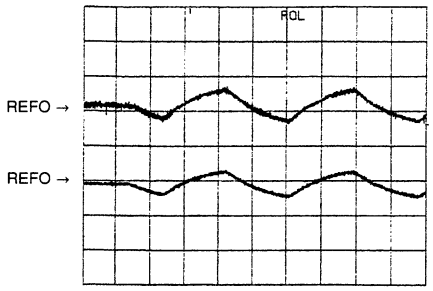

① CH1: RFO 1V/div. 0.5ms/div.
② CH2: MIRR 5V/div.
Test mode: Tracking open



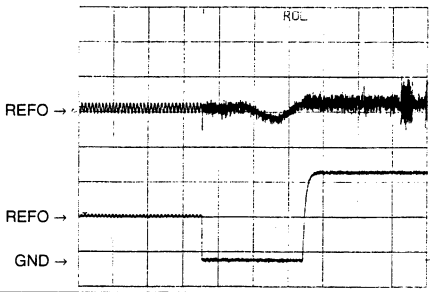

① CH1: RFO 1V/div. 0.5ms/div.
② CH2: MIRR 5V/div.
Nomal mode: The defect part passes



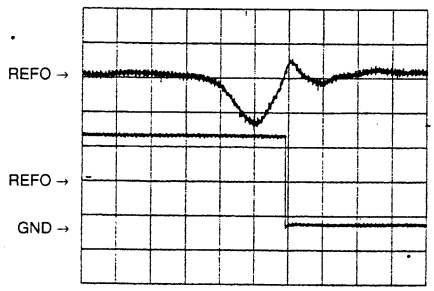

③ CH1: FIN 0.5V/div. 0.2s/div.
④ CH2: FO+ 2V/div.
Test mode: No disc, Focus close



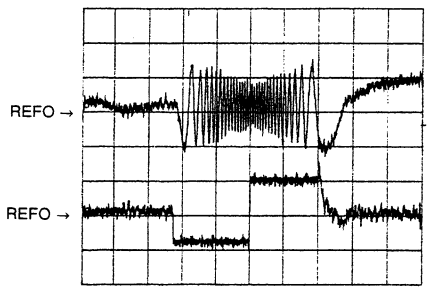

③ CH1: FIN 0.5V/div. 0.2s/div.
⑤ CH2: FOK 2V/div.
Normal mode: Focus close



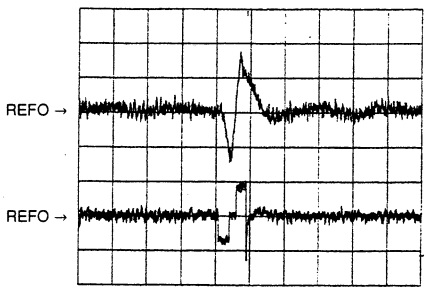

⑥ CH1: FEY 0.5V/div. 1ms/div.
⑦ CH2: XSI 2V/div.
Normal mode: Focus close



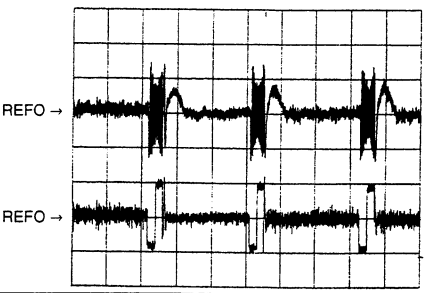

⑧ CH1: TEY 0.5V/div. 0.5ms/div.
⑨ CH2: TIN 0.5V/div.
Test mode: 32 tracks jump (FWD)



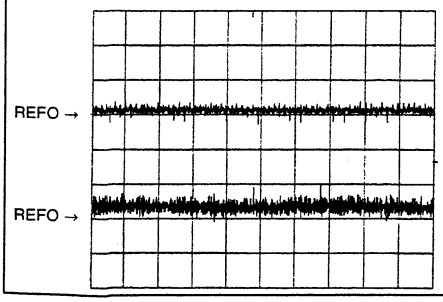

⑧ CH1: TEY 0.5V/div. 0.5ms/div.
⑨ CH2: TIN 0.5V/div.
Test mode: Single jump (FWD)



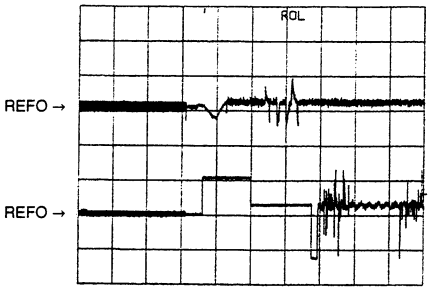

⑧ CH1: TEY 0.5V/div. 5ms/div.
⑨ CH2: TIN 0.5V/div.
Test mode: 100 tracks jump (FWD)



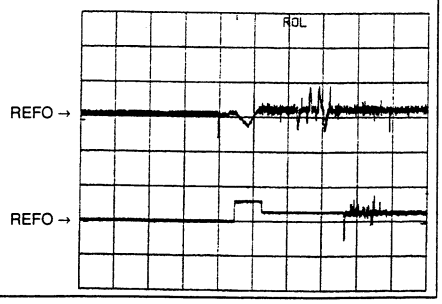

⑥ CH1: FEY 0.1V/div. 20ms/div.
③ CH2: FIN 0.2V/div.
Normal mode: Play



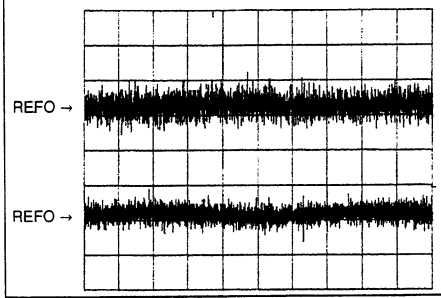

③ CH1: FIN 0.5V/div. 0.5s/div.
⑩ CH2: SIN 1V/div.
Normal mode: Focus close (12cm)



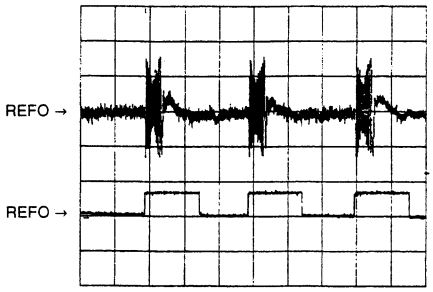

③ CH1: FIN 0.5V/div. 0.5s/div.
⑩ CH2: SIN 1V/div.
Normal mode: Focus close (8cm)



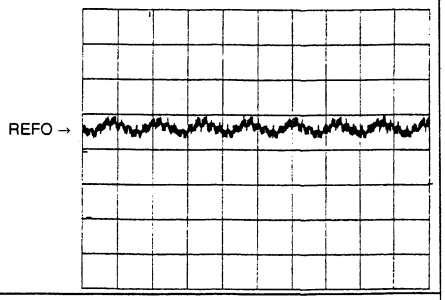
⑧ CH1: TEY 0.2V/div.
⑨ CH2: TIN 0.2V/div. 20ms/div.
Normal mode: play



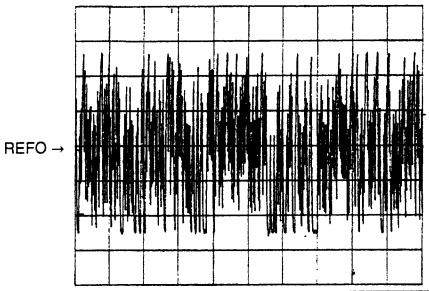

⑧ CH1: TEY 0.5V/div.
⑪ CH2: SD 0.5V/div. 5ms/div.



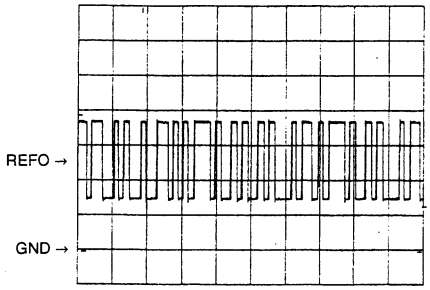

⑩ SIN 0.5V/div. 0.1s/div.
Normal mode: Play (12cm)



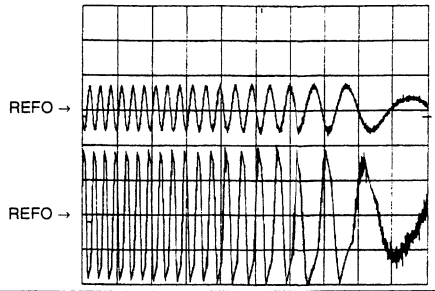

⑩ SIN 0.5V/div. 10ms/div.
Long Search (12cm)



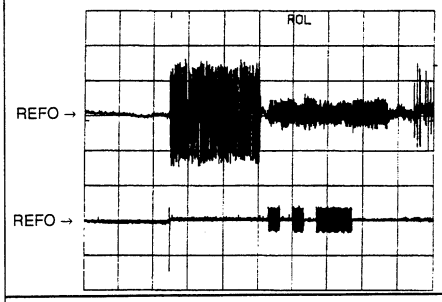

⑫ EFM 1V/div. 5µs/div.
Play



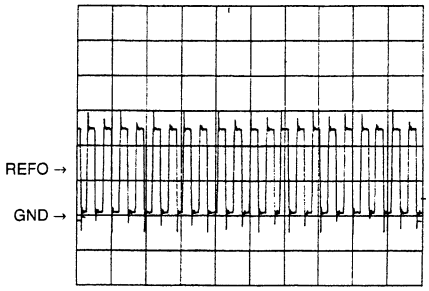

⑧ CH1: TEY 1V/div.
⑬ CH2: TEC 1V/div. 2ms/div.
Test mode: Focus close
Tracking open



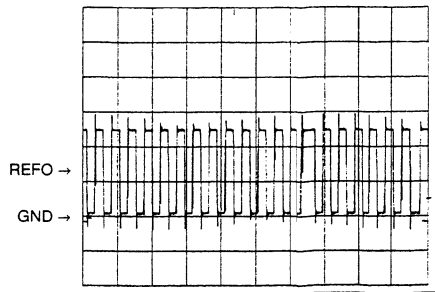

⑧ CH1: TEY 0.5V/div.
⑥ CH2: FEY 0.5V/div. 0.2s/div.
Normal mode: AGC after focus close



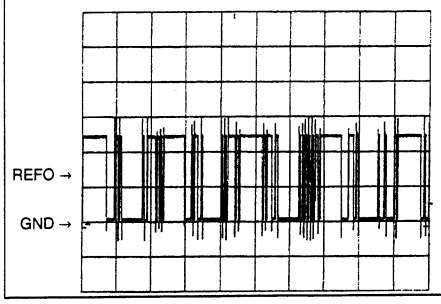

⑭ PLCK 2V/div. 0.5µs/div.
Play



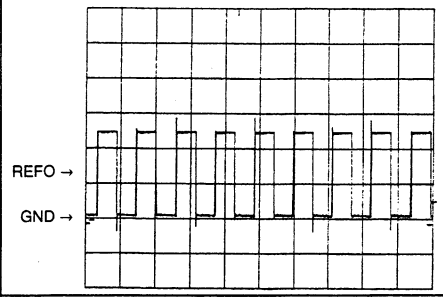

⑮ SCKO 2V/div. 1µs/div.
Play



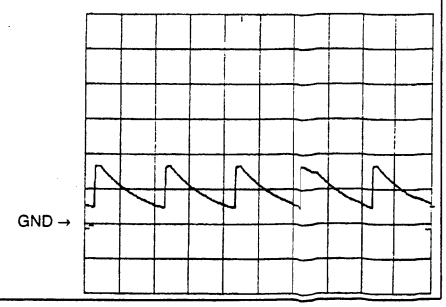

⑯ Dout 2V/div. 10µs/div.
Play



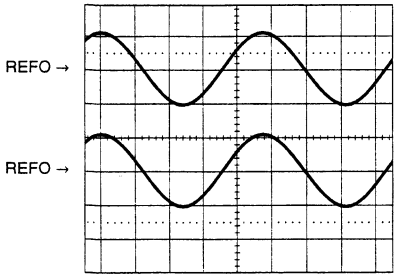

⑰ LRCK 2V/div. 20µs/div.



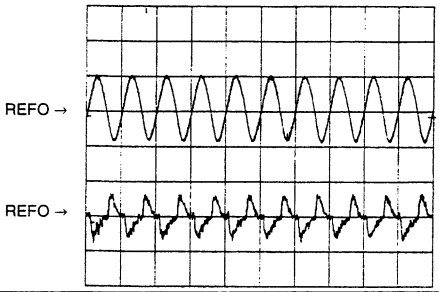

⑱ VD 5V/div. 50ms/div.
Normal mode: No disc



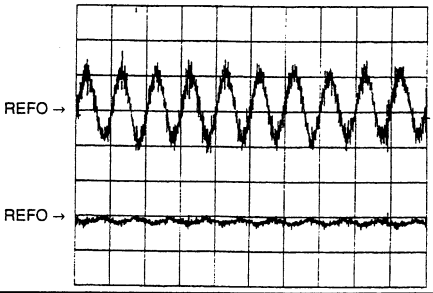
⑲ CH1: R OUT 1V/div.
⑳ CH2: L OUT 1V/div. 0.2ms/div.
Normal mode: Play (1kHz 0dB)



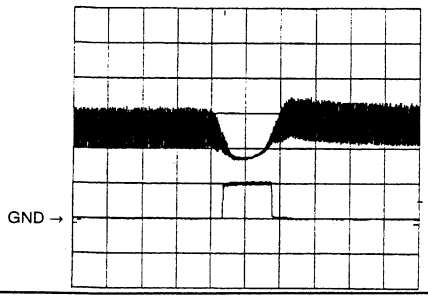

⑥ CH1: FEY 0.2V/div.
③ CH2: FIN 0.5V/div. 1ms/div.
Normal mode: During AGC



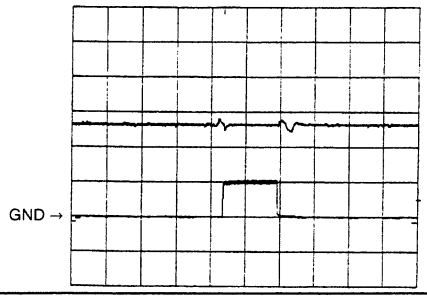

⑧ CH1: TEY 0.2V/div.
⑨ CH2: TIN 0.5V/div. 1ms/div.



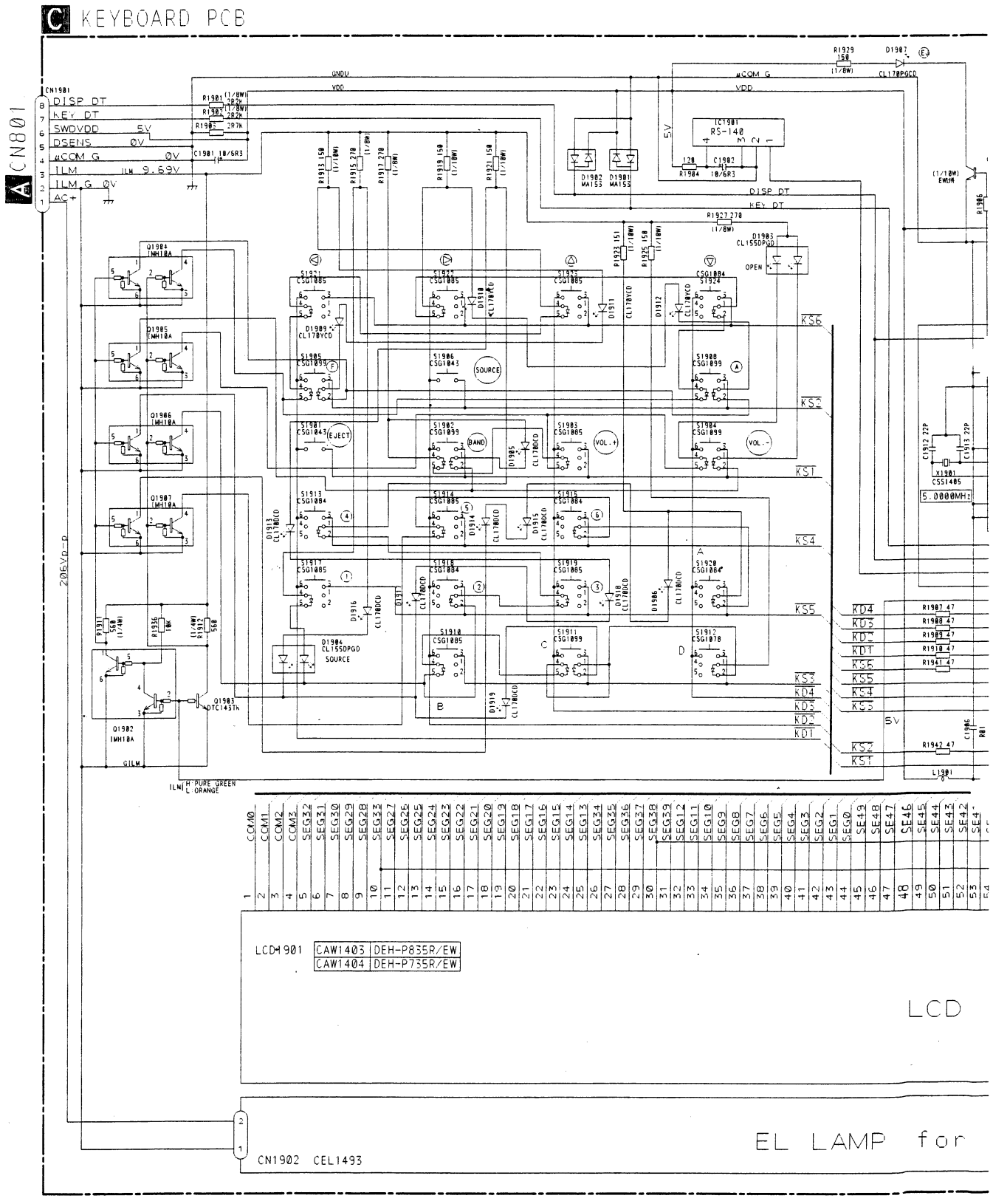

① CH1: RFO 1V/div.
㉑ CH2: HOLD 5V/div. 0.5ms/div.
Normal mode: The defect part passes 800μm

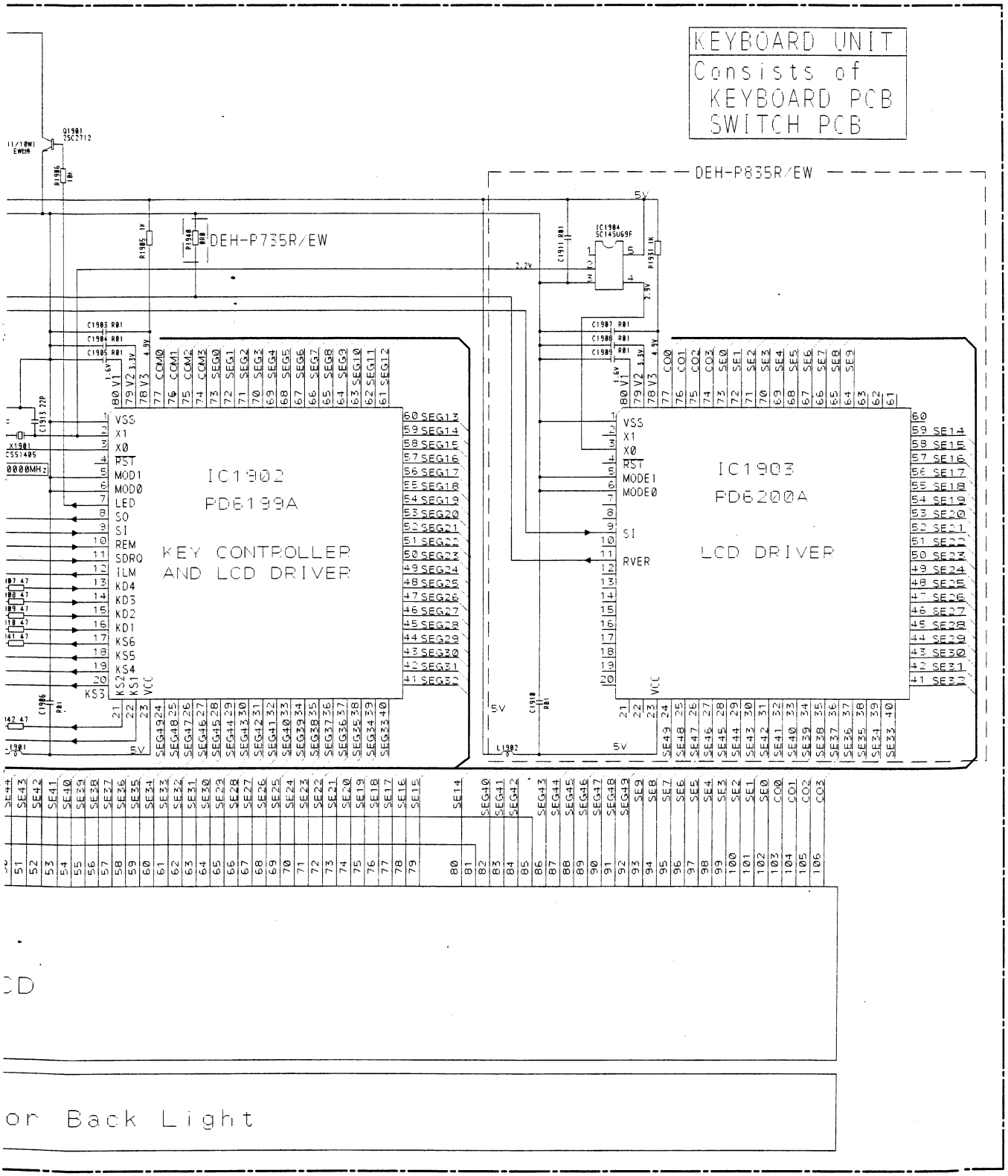



③ CH1: FIN 1V/div.
㉑ CH2: HOLD 5V/div. 0.5ms/div.
Normal mode: The defect part passes 800μm

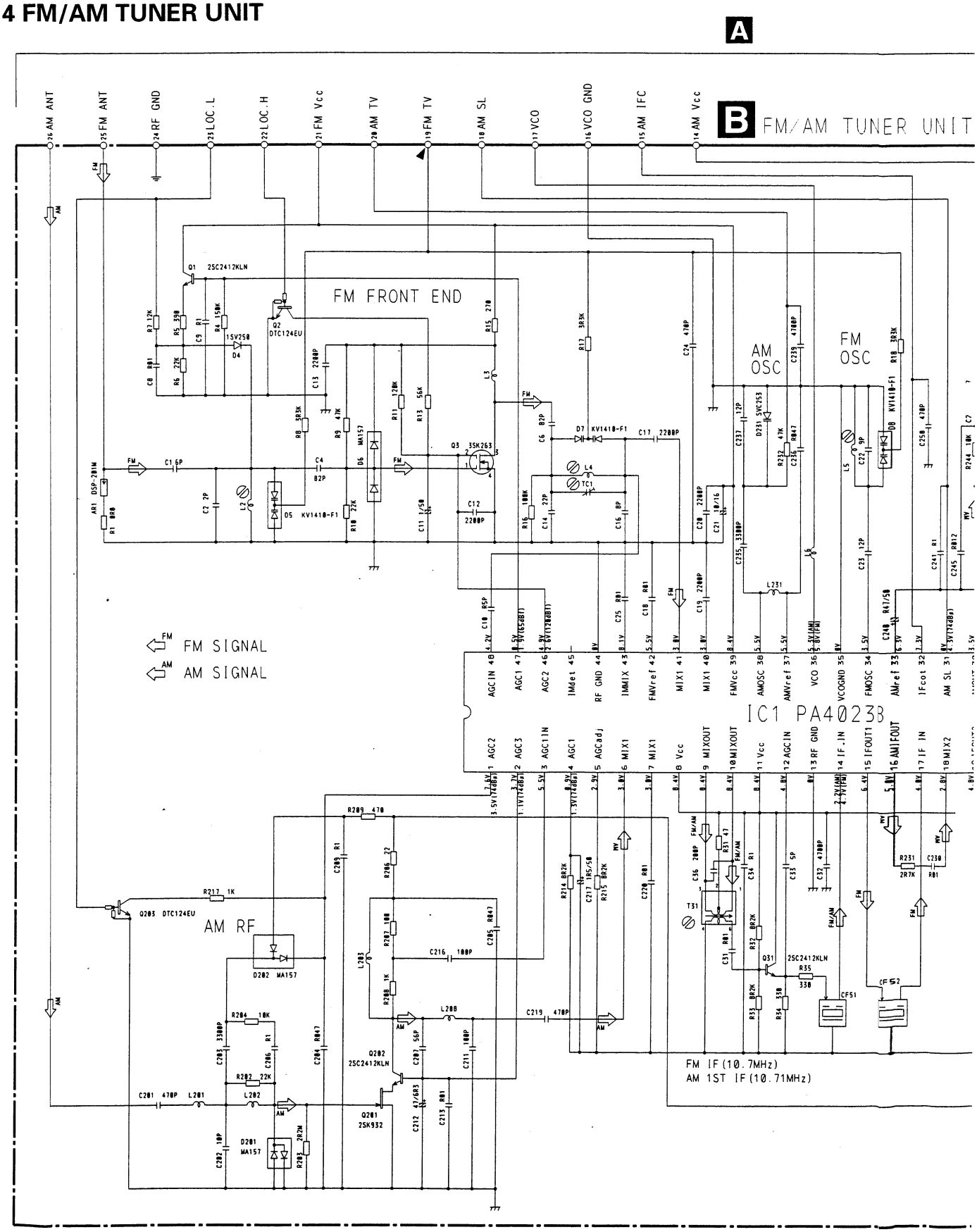


## 3.3 KEYBOARD PCB




KEYBOARD UNIT
Consists of
KEYBOARD PCB
SWITCH PCB
DEH-P835R/EW
DEH-P735R/EW
IC1902
PD6199A
KEY CONTROLLER
AND LCD DRIVER
IC1903
PD6200A
LCD DRIVER
or Back Light

## 3.4 FM/AM TUNER UNIT



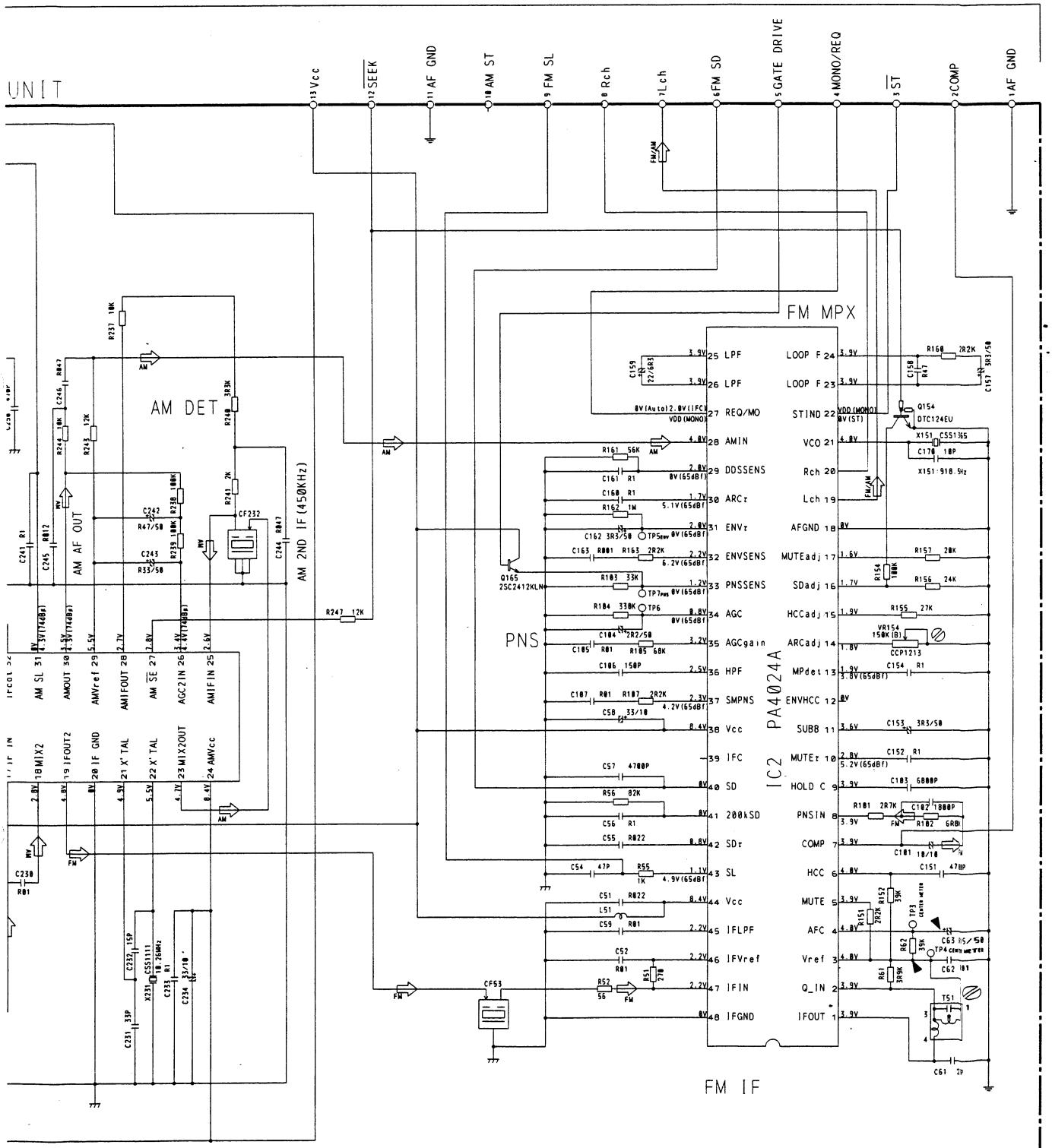

UNIT
13 Vcc
12 SEEK
11 AF GND
10 AM ST
9 FM SL
8 Rch
7 Lch
6 FM SD
5 GATE DRIVE
4 MONO/REQ
3 ST
2 COMP
1 AF GND
FM MPX
AM DET
AM AF OUT
AM 2ND IF (450KHz)
PNS
IC2 PA4024A
FM IF
25 LPF
26 LPF
27 REQ/MO
28 AMIN
29 DDSSENS
30 ARCr
31 ENVr
32 ENVSENS
33 PNSSENS
34 AGC
35 AGCgain
36 HPF
37 SMPNS
38 Vcc
39 IFC
40 SD
41 200kSD
42 SDr
43 SL
44 Vcc
45 IFLPF
46 IFVref
47 IFIN
48 IFGND
24 AMVcc
23 MIX2OUT
22 X'TAL
21 X'TAL
20 IF GND
19 IFOUT2
18 MIX2
LOOP F 24
LOOP F 23
STIND 22
VCO 21
Rch 20
Lch 19
AFGND 18
MUTEadj 17
SDadj 16
HCCadj 15
ARCadj 14
MPdet 13
ENVHCC 12
SUBB 11
MUTEr 10
HOLD C 9
PNSIN 8
COMP 7
HCC 6
MUTE 5
AFC 4
Vref 3
Q_IN 2
IFOUT 1
AM SL 31
AMOUT 30
AMVref 29
AMIFOUT 28
AM SE 27
AGC2IN 26
AMIFIN 25
Q165 2SC2412KLN
Q154 DTC124EU
CF232
CF53
X151 CSS1365
X151 918.5Hz
X231 CSS1111 10.25MHz
TP5 TP7 TP6 TP3 TP4
T51
VR154 150K(B) CCP1213

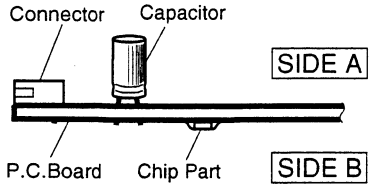
Fig. 11

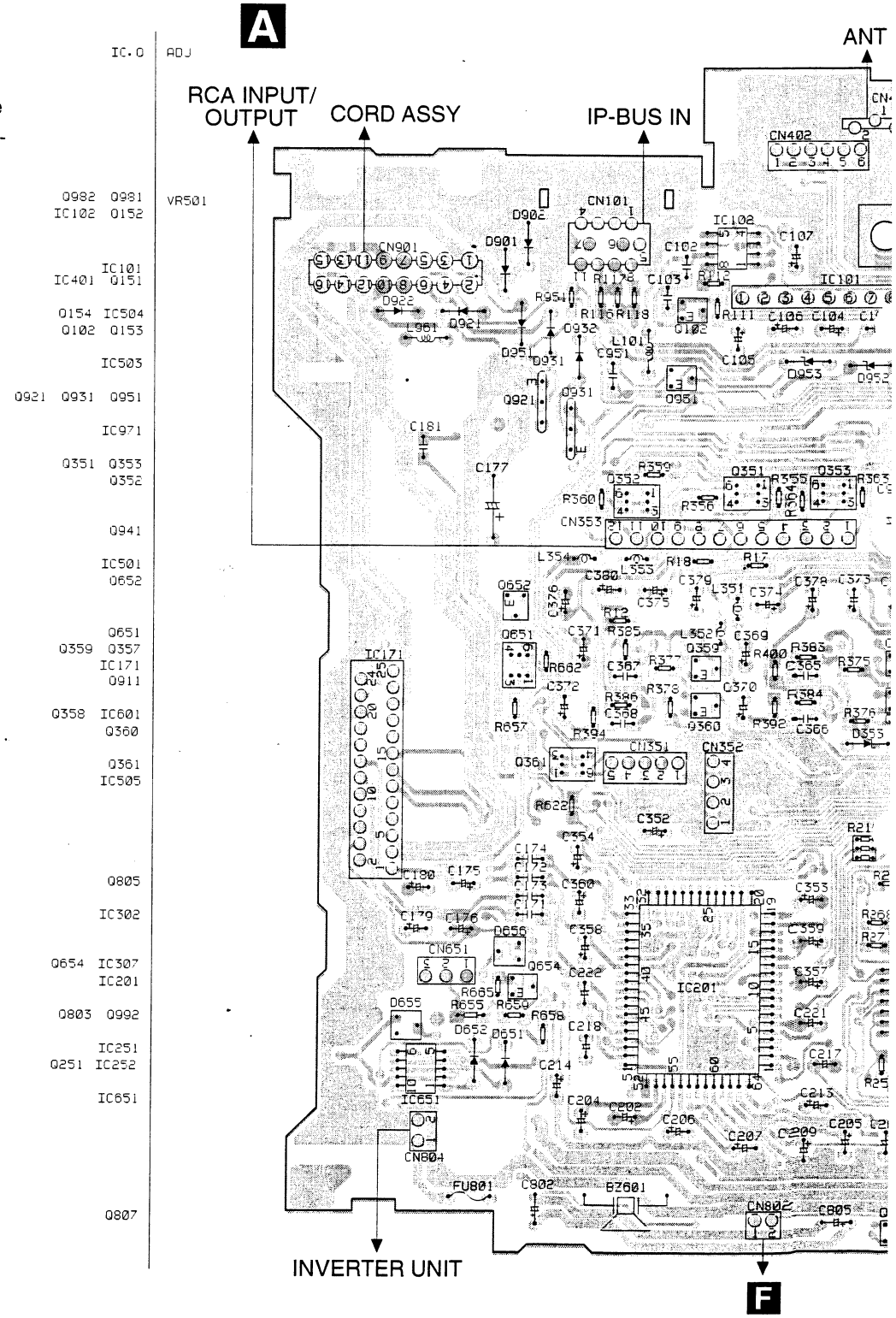
# 4. PCB CONNECTION DIAGRAM

## 4.1 TUNER AMP UNIT

### NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



SIDE A

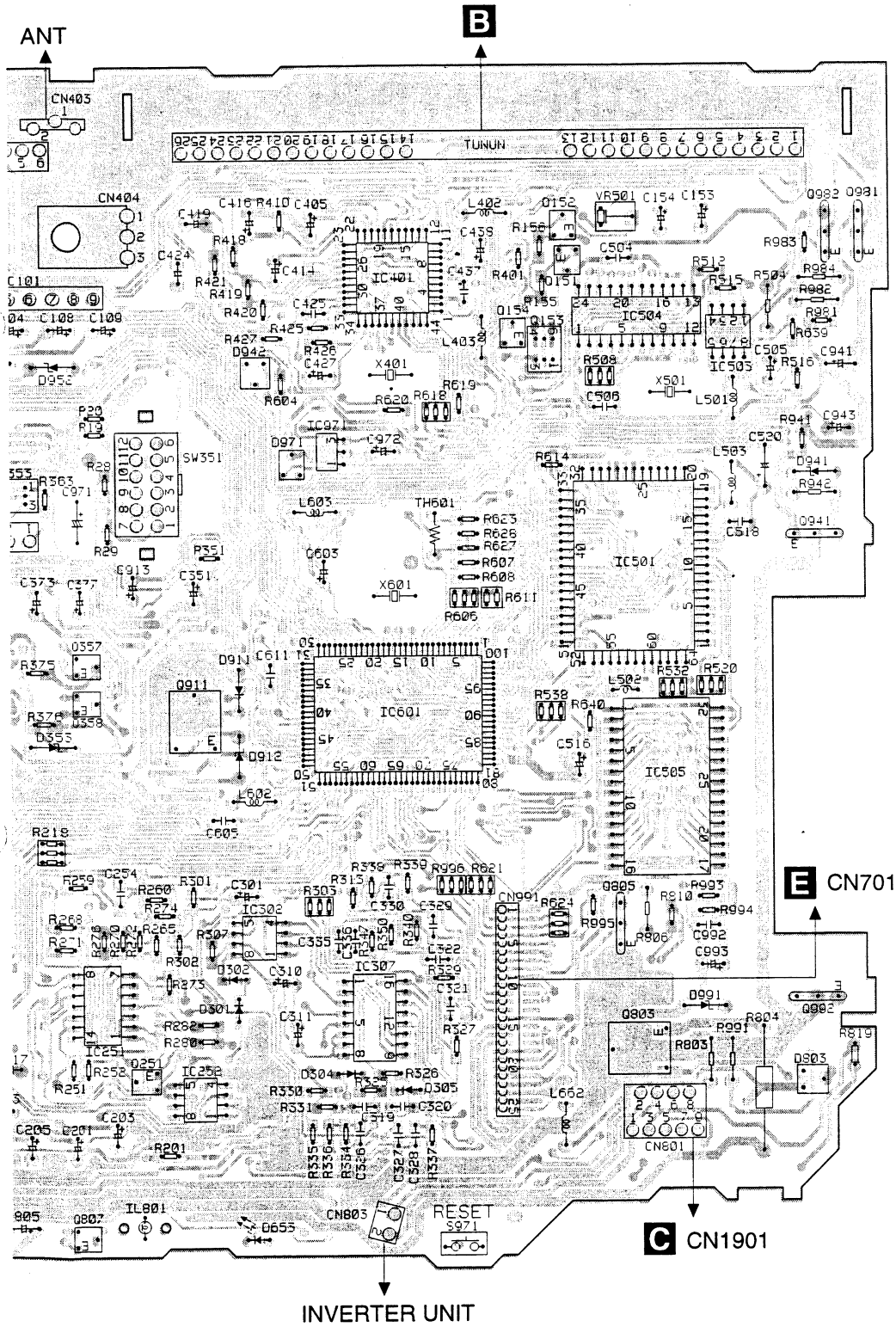
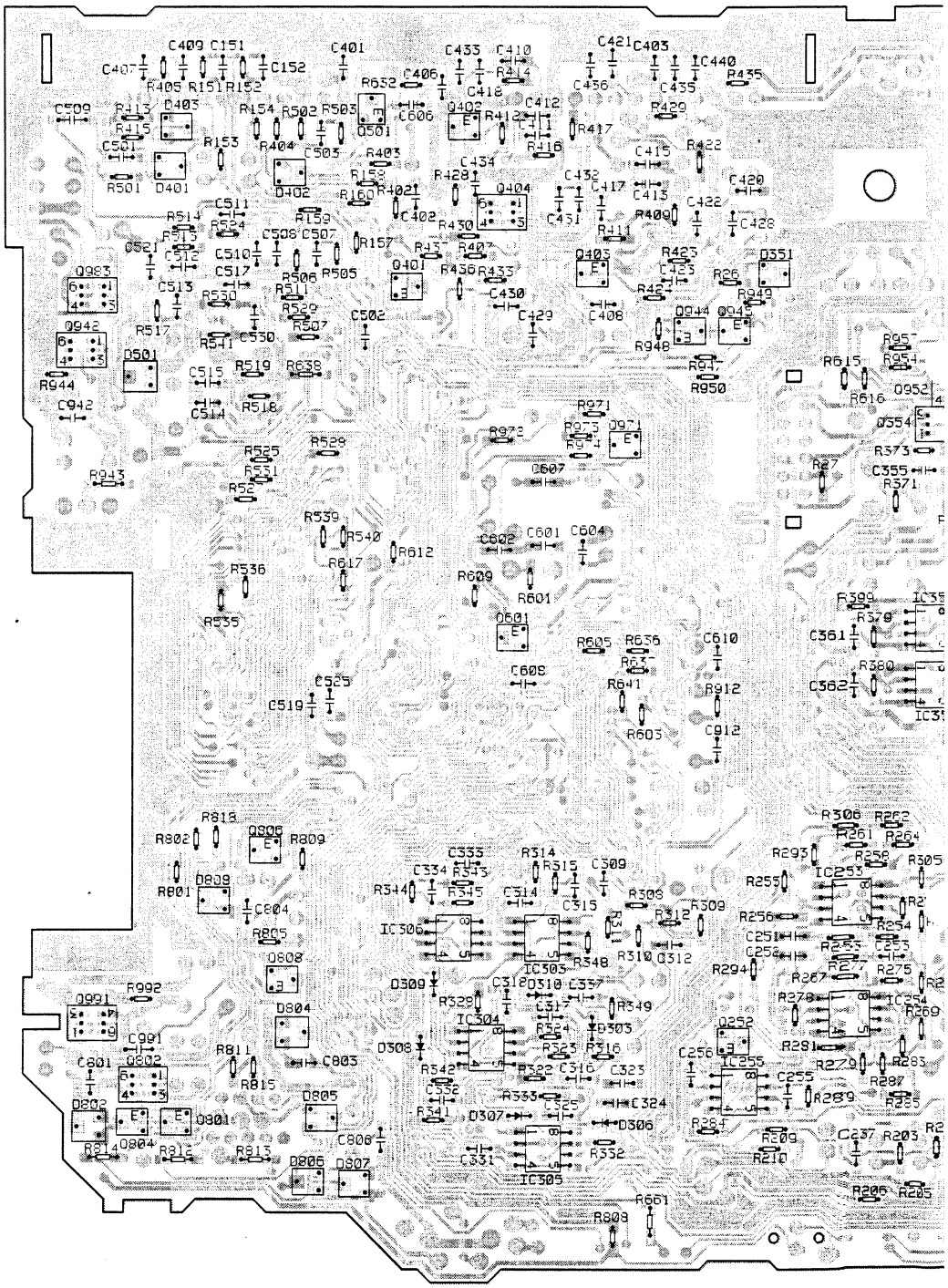
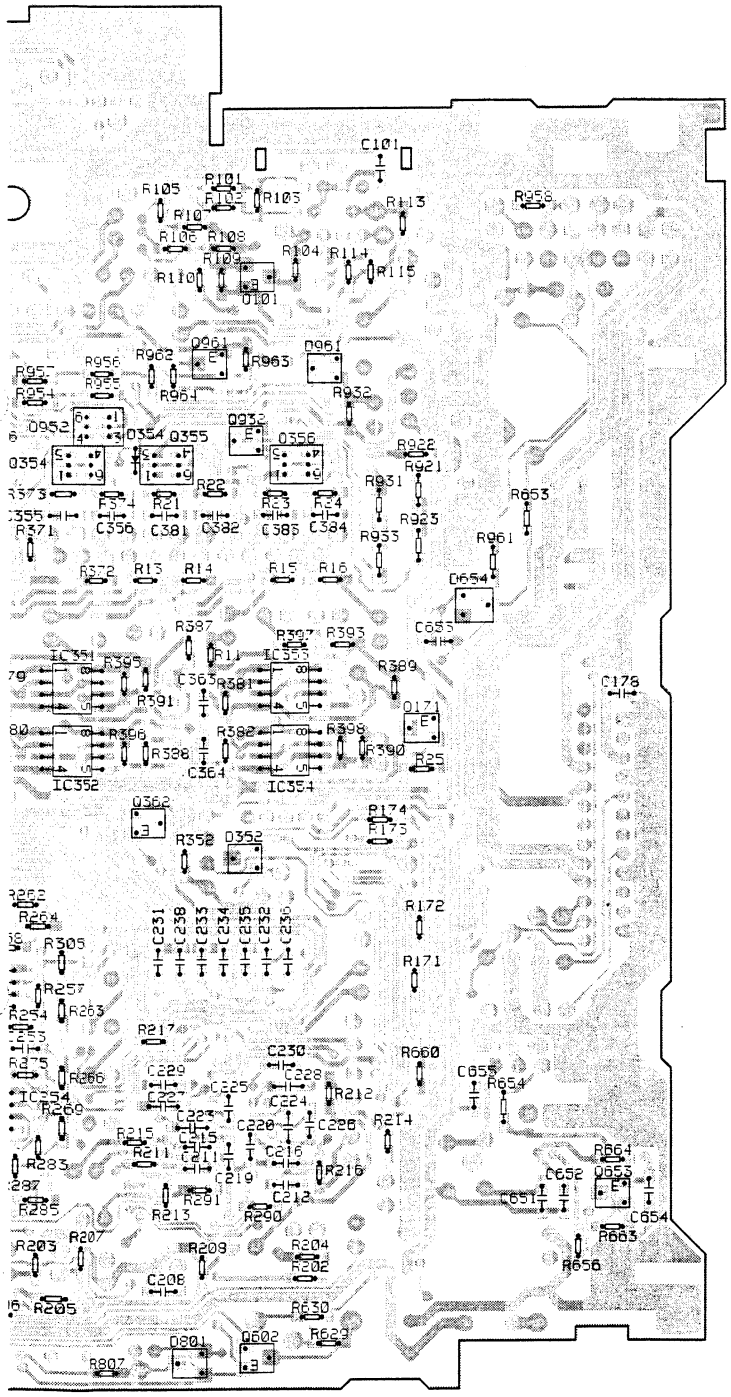

ANT
B
CN403
CN404
TUNUN
IC401
IC504
IC503
IC501
IC601
IC505
IC307
IC302
IC251
IC252
SW351
TH601
X401
X501
X601
L603
L602
L503
L502
L662
L5018
CN991
CN801
CN803
IL801
RESET
S971
E CN701
C CN1901
INVERTER UNIT

Fig. 12

A



SIDE B




IC.Q

Q402
Q501

Q404

Q403
Q983 Q401 Q101

Q944 Q945
Q942 Q961

Q932
Q952 Q355
Q356
Q971 Q354

IC351 IC353
Q601
Q171

IC352 IC354
Q362

Q806

IC253

IC306

Q808 IC303

Q991 IC254
IC304 Q252

Q802 IC255 Q653

Q801
Q804

IC305

Q602

Fig. 13

## 4.2 CD MECHANISM MODULE

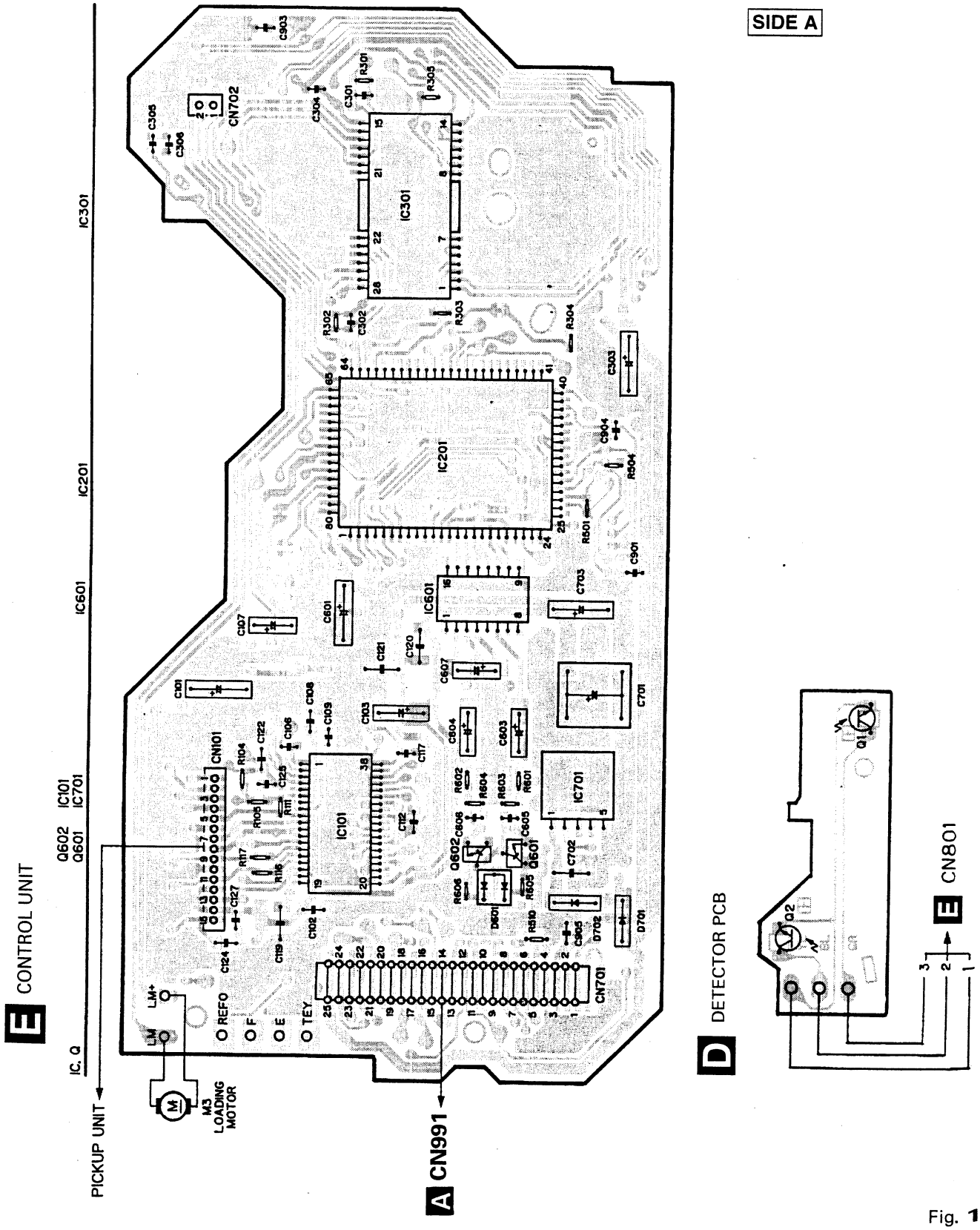



Fig. 14

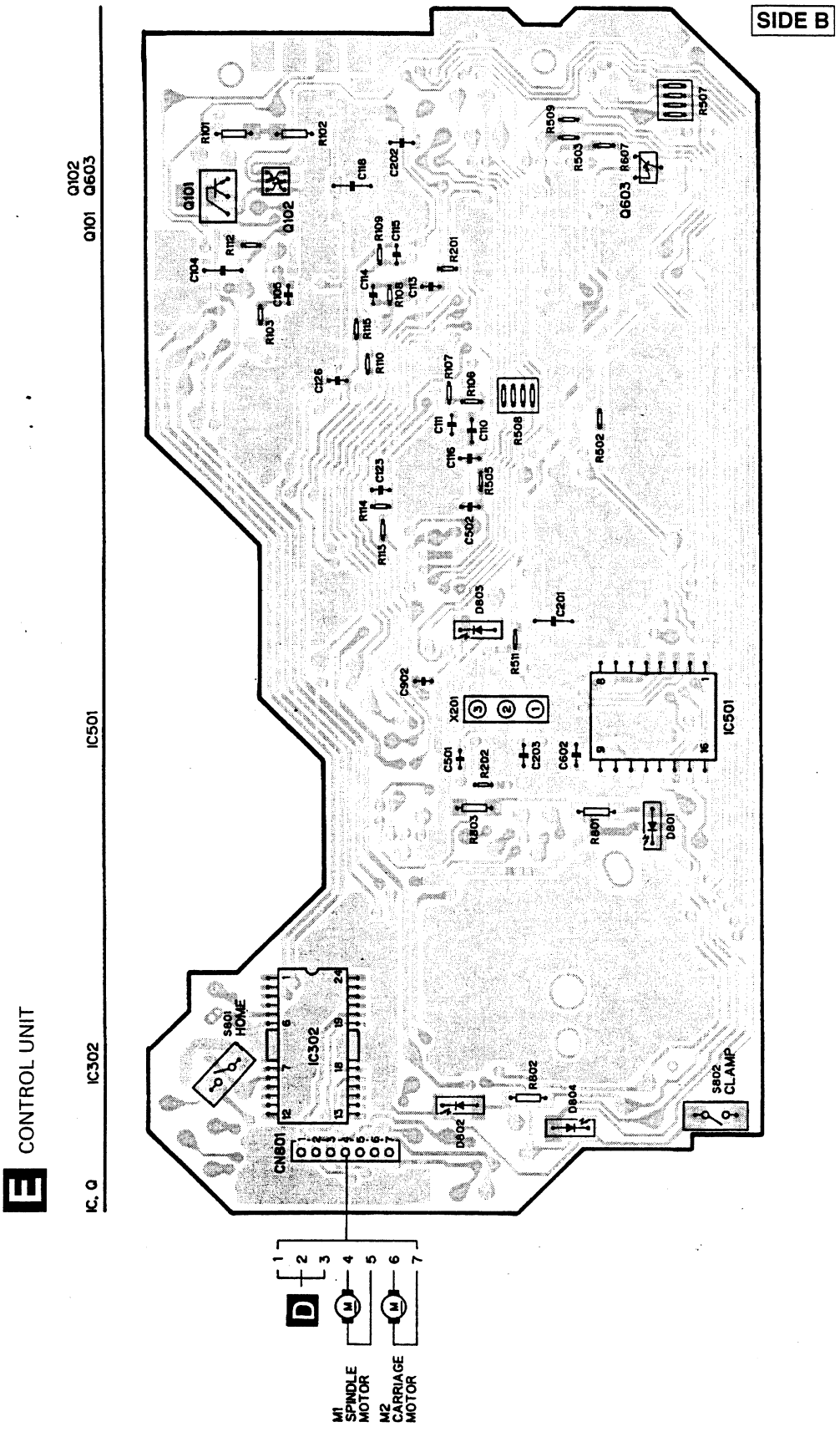
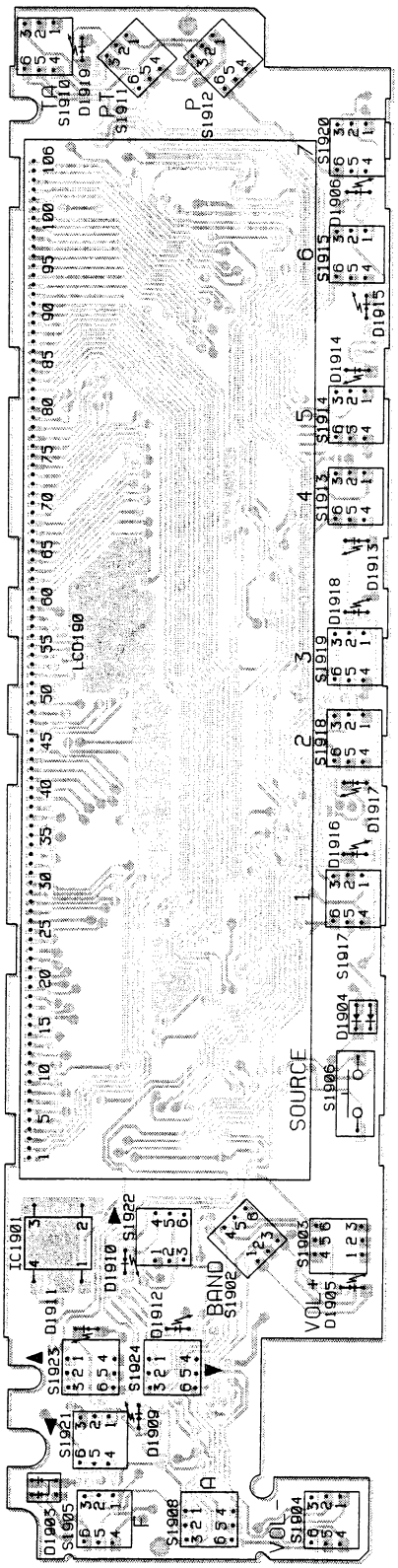

E CONTROL UNIT
IC, Q
IC302
IC501
Q101 Q603
Q102
SIDE B
S801 HOME
S802 CLAMP
CN801
D
M1 SPINDLE MOTOR
M2 CARRIAGE MOTOR

Fig. 15

## 4.3 KEYBOARD PCB(DEH-P835R/EW)

SIDE A




C

IC1901 C.O

Fig. 16

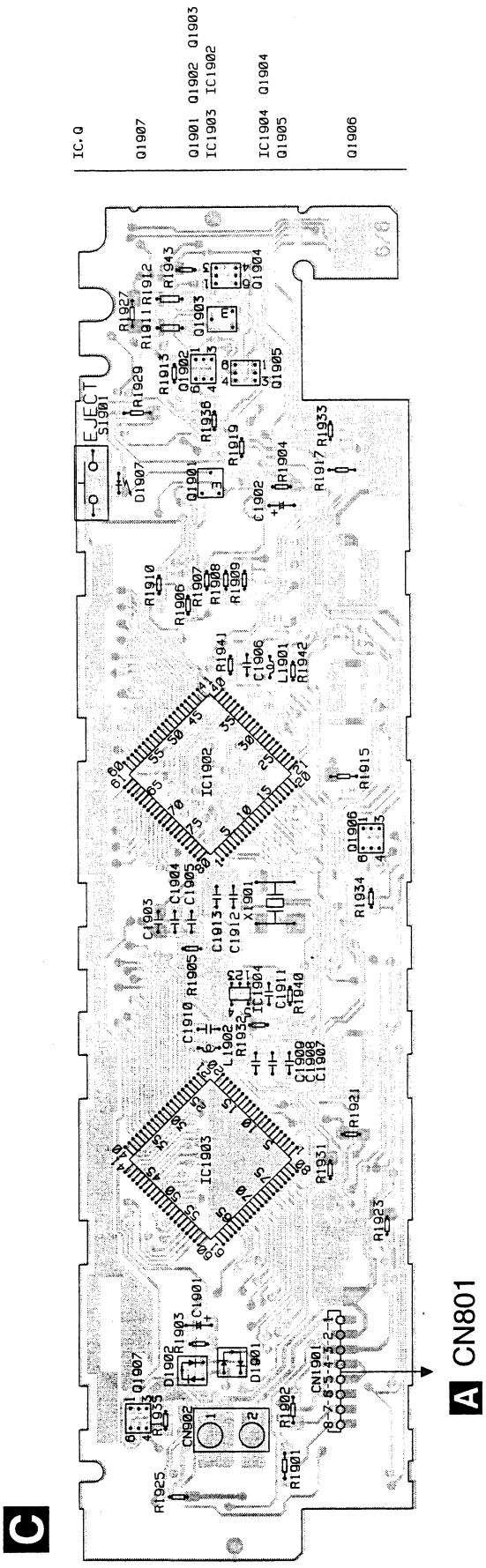

IC. Q
Q1907
Q1901 Q1902 Q1903
IC1903 IC1902
IC1904 Q1904
Q1905
Q1906
SIDE B
EJECT
S1901
A CN801
C

Fig. 17

## 4.4 KEYBOARD PCB(DEH-P735R/EW)

SIDE A

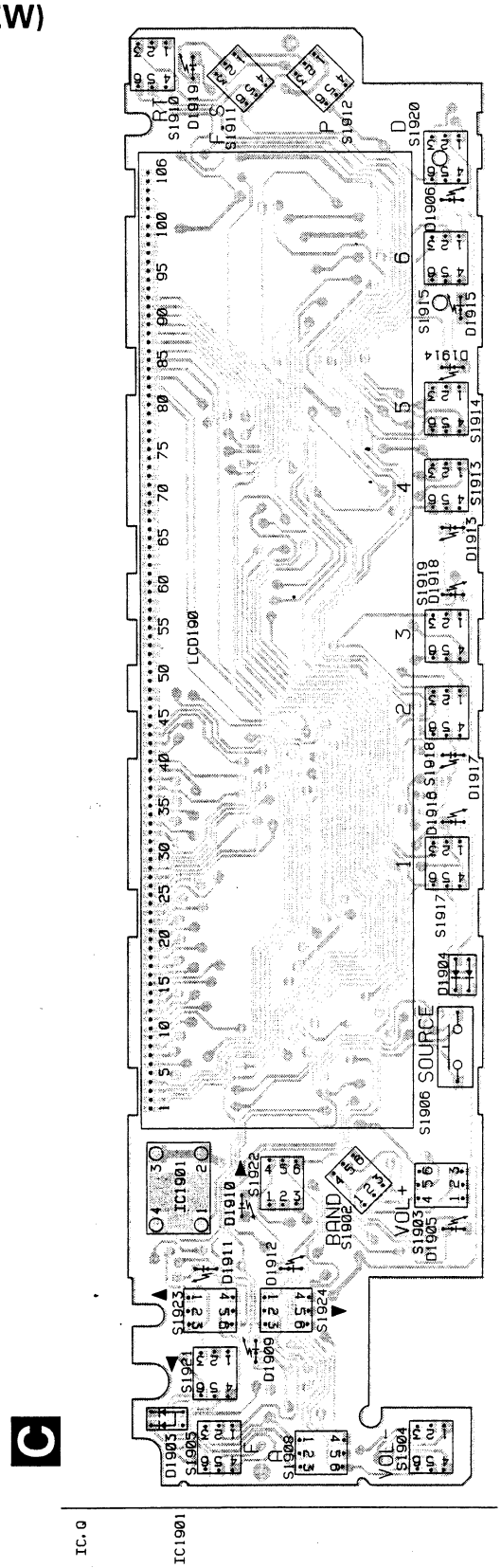
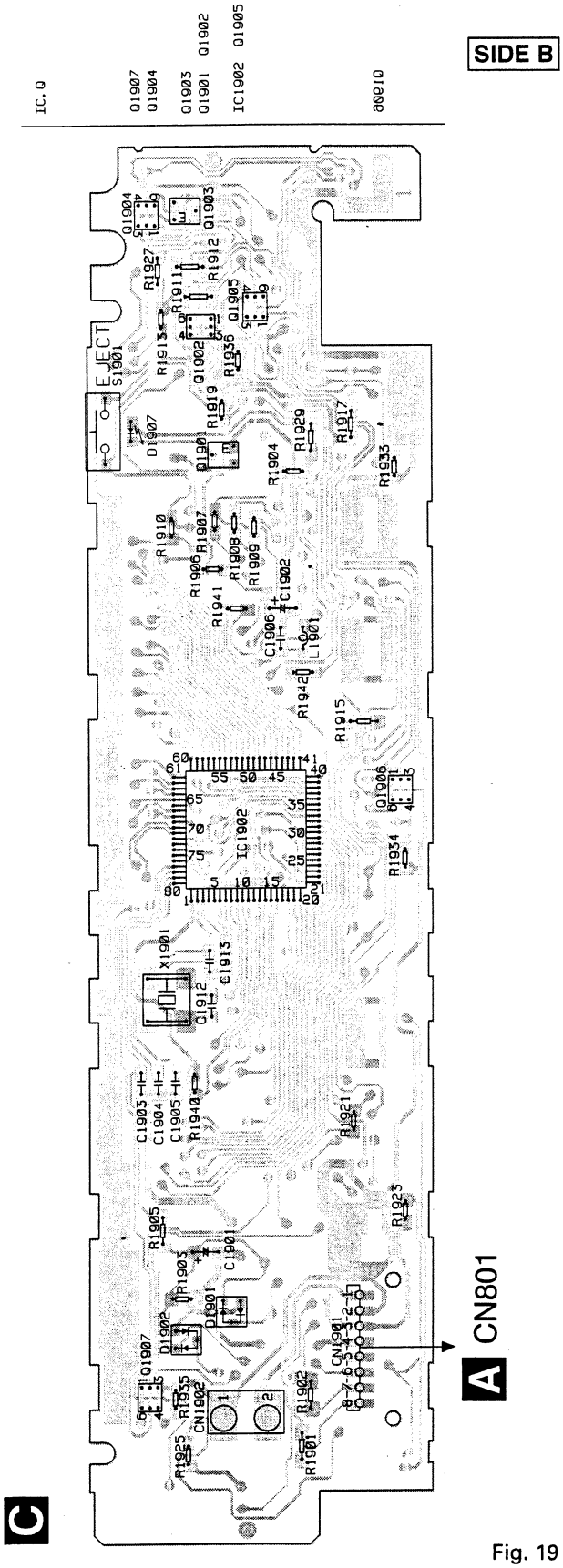



Fig. 18

## 4.5 SWITCH PCB



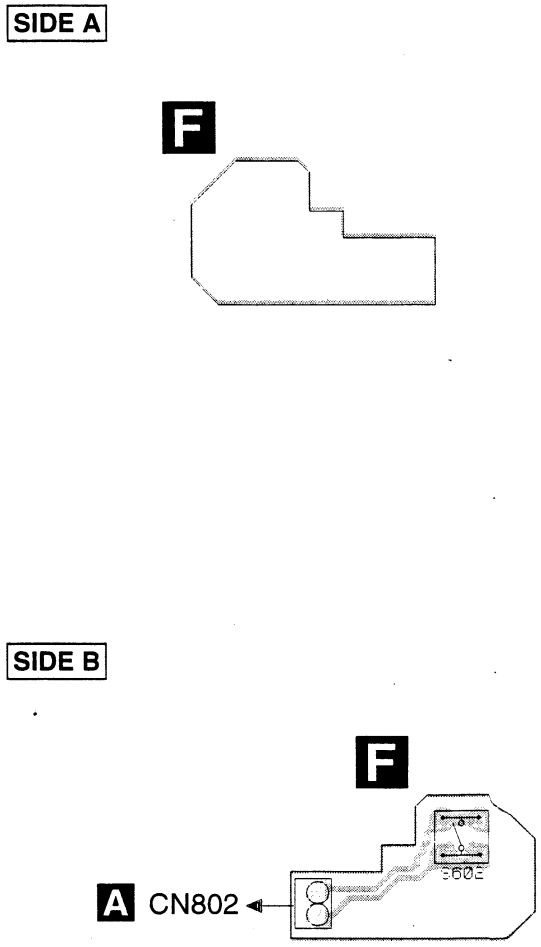




Fig. 19

## 4.6 FM/AM TUNER UNIT

SIDE A

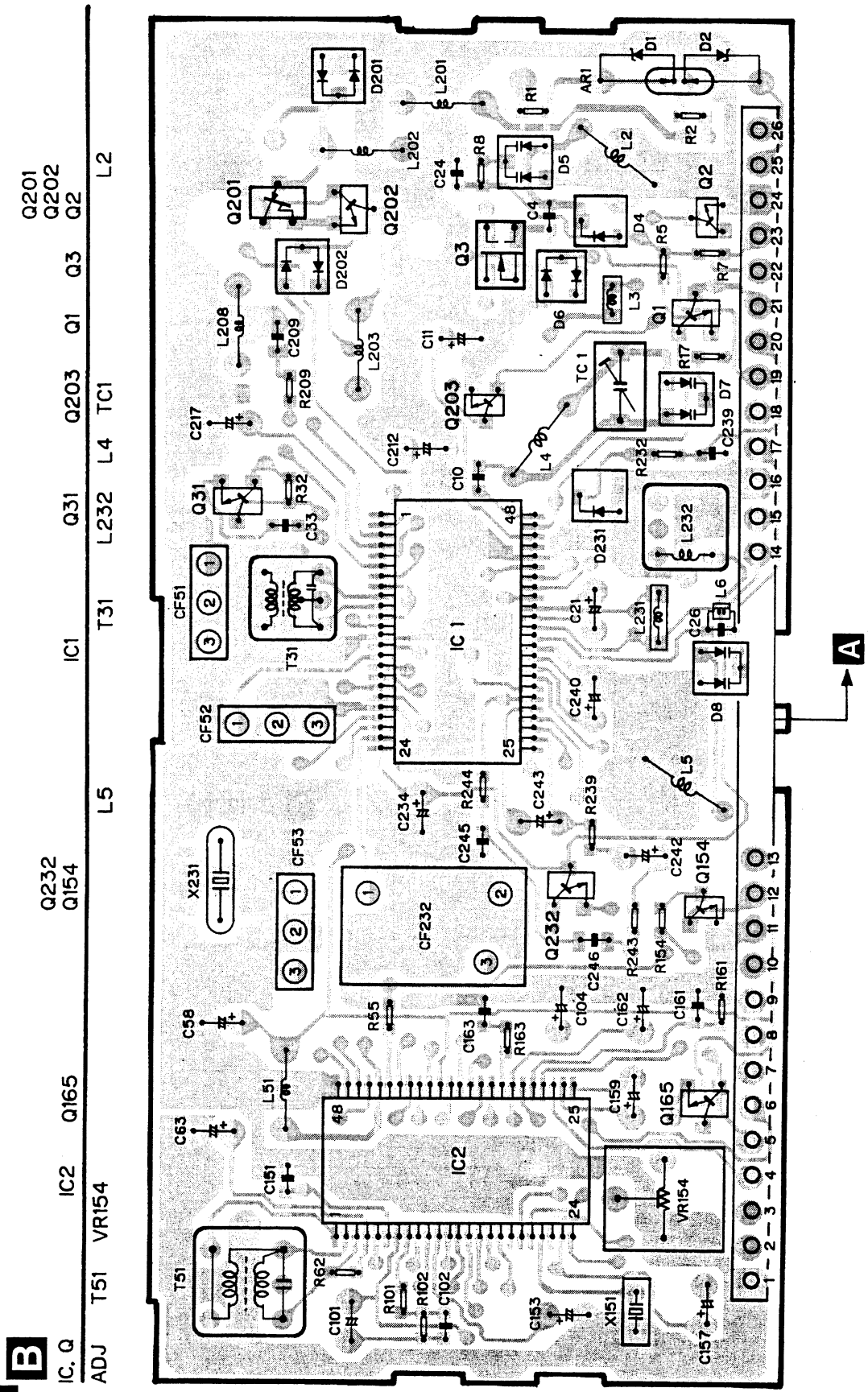



Fig. 20

SIDE B

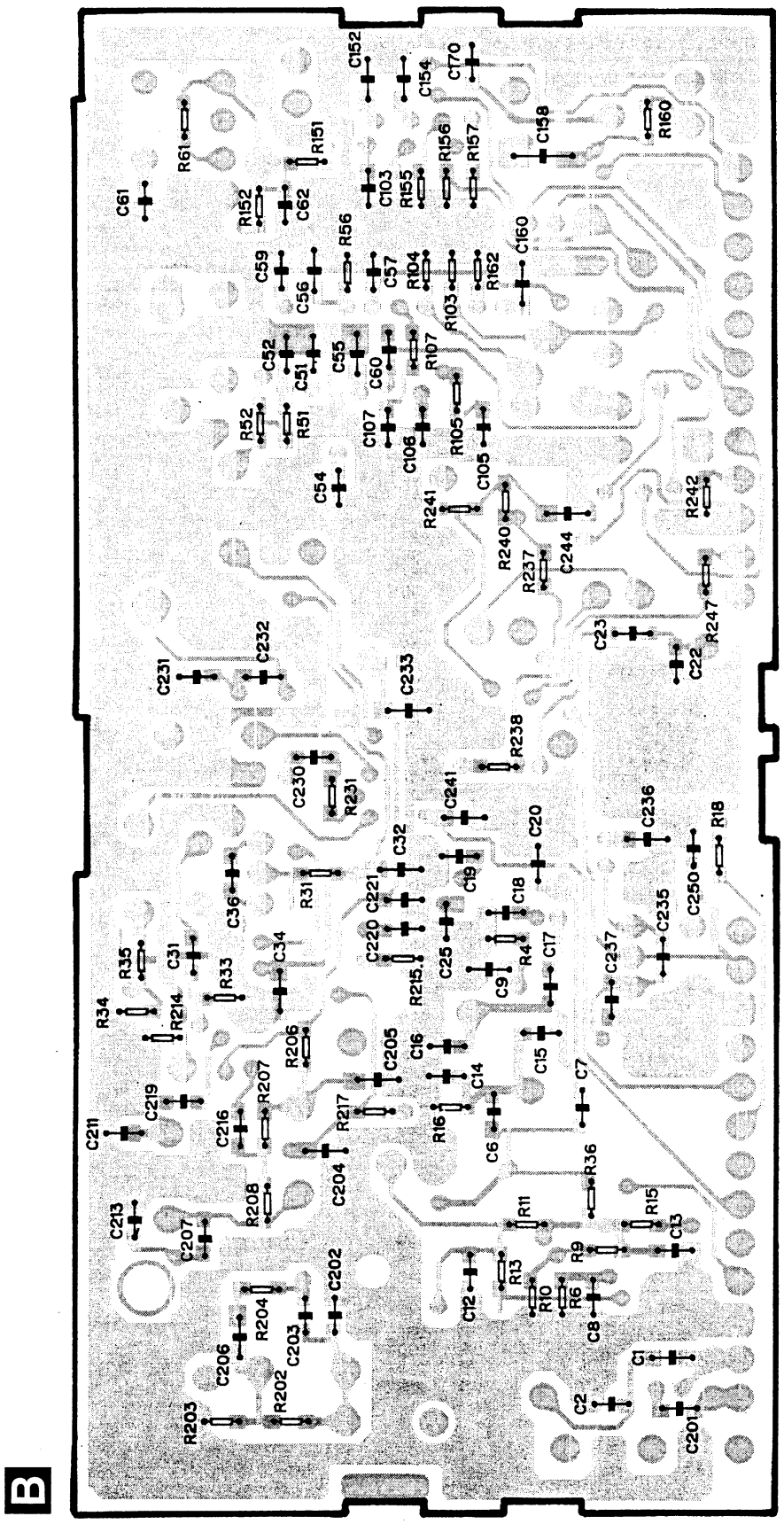

B
C61
R61
R151
C62
R152
C59
C56
R56
C57
C103
R155
C152
C154
C170
R156
R157
C158
R160
R104
R162
C160
R103
C52
C51
C55
C60
R107
R52
R51
C107
C106
R105
C105
C54
R241
R240
R237
C244
R242
C23
C22
R247
C231
C232
C233
R238
C230
R231
C241
C236
R18
C32
C221
C19
C20
C18
R31
C36
C220
C25
R215
C9
R4
C17
C237
C235
C250
C34
R35
C31
R33
R34
R214
R206
C205
C16
C14
C15
C7
C219
C211
C216
R207
R217
R16
C6
R36
C204
R208
R11
R15
C13
C213
C207
R9
C12
R13
R10
R6
C202
C8
C206
R204
C203
C1
R202
C2
R203
C201

Fig. 21

# 5. ELECTRICAL PARTS LIST

**NOTE:**

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

  Chip Resistor

  RS1/○S○○○J,RS1/○○S○○○J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....

**B** Unit Number : CWE1416
Unit Name : FM/AM Tuner Unit

MISCELLANEOUS

| =====Circuit Symbol & No. | | ===Part Name | Part No. |
|---|---|---|---|
| IC | 1 | IC | PA4023B |
| IC | 2 | IC | PA4024A |
| Q | 1 | Transistor | 2SC2412KLN |
| Q | 2 | Transistor | DTC124EU |
| Q | 3 | FET | 3SK263 |
| Q | 31 | Transistor | 2SC2412KLN |
| Q | 154 | Transistor | DTC124EU |
| Q | 165 | Transistor | 2SC2412KLN |
| Q | 201 | FET | 2SK932 |
| Q | 202 | Transistor | 2SC2412KLN |
| Q | 203 | Transistor | DTC124EU |
| D | 4 | Diode | 1SV250 |
| D | 5 | Diode | KV1410-F1 |
| D | 6 | Diode | MA157 |
| D | 7 | Diode | KV1410-F1 |
| D | 8 | Diode | KV1410-F1 |
| D | 201 | Diode | MA157 |
| D | 202 | Diode | MA157 |
| D | 231 | Diode | SVC253 |
| L | 2 | Coil | CTC1108 |
| L | 3 | Inductor | LCTB2R2K2125 |
| L | 4 | Coil | CTC1108 |
| L | 5 | Coil | CTC1107 |
| L | 6 | Inductor | LCTBR15K1608 |
| L | 51 | Ferri-Inductor | LAU150K |
| L | 201 | Ferri-Inductor | LAU4R7K |
| L | 202 | Ferri-Inductor | LAU330K |
| L | 203 | Inductor | CTF1287 |
| L | 208 | Inductor | LAU121K |
| L | 231 | Inductor | LCTA3R3J3225 |
| T | 31 | Coil | CTE1116 |
| T | 51 | Coil | CTC1136 |
| TC | 1 | | CCL1038 |
| CF | 51 | Ceramic Filter | CTF1292 |
| CF | 52 | Ceramic Filter | CTF1292 |
| CF | 53 | Ceramic Filter | CTF1292 |
| CF | 232 | Ceramic Filter | CTF1348 |
| X | 151 | Resonator 920.5kHz | CSS1365 |
| X | 231 | Crystal Resonator 10.26MHz | CSS1111 |
| VR | 154 | Semi-fixed 150kΩ(B) | CCP1213 |
| AR | 1 | | DSP-201M |

RESISTORS

| =====Circuit Symbol & No. | | ===Part Name | Part No. |
|---|---|---|---|
| R | 1 | | RS1/16S0R0J |
| R | 4 | | RS1/16S154J |
| R | 5 | | RS1/16S391J |
| R | 6 | | RS1/16S223J |
| R | 7 | | RS1/16S123J |
| R | 8 | | RS1/16S332J |
| R | 9 | | RS1/16S473J |
| R | 10 | | RS1/16S223J |
| R | 11 | | RS1/16S124J |
| R | 13 | | RS1/16S563J |
| R | 15 | | RS1/16S271J |
| R | 16 | | RS1/16S104J |
| R | 17 | | RS1/16S332J |
| R | 18 | | RS1/16S332J |
| R | 31 | | RS1/16S470J |
| R | 32 | | RS1/16S822J |
| R | 33 | | RS1/16S822J |
| R | 34 | | RS1/16S331J |
| R | 35 | | RS1/16S331J |
| R | 51 | | RS1/16S271J |
| R | 52 | | RS1/16S560J |
| R | 55 | | RS1/16S102J |
| R | 56 | | RS1/16S823J |
| R | 61 | | RS1/16S392J |
| R | 62 | | RS1/16S393J |
| R | 101 | | RS1/16S272J |
| R | 102 | | RS1/16S682J |
| R | 103 | | RS1/16S333J |
| R | 104 | | RS1/16S334J |
| R | 105 | | RS1/16S683J |
| R | 107 | | RS1/16S222J |
| R | 151 | | RS1/16S222J |
| R | 152 | | RS1/16S393J |
| R | 154 | | RS1/16S104J |
| R | 155 | | RS1/16S273J |
| R | 156 | | RS1/16S243J |
| R | 157 | | RS1/16S203J |
| R | 160 | | RS1/16S222J |
| R | 161 | | RS1/16S563J |
| R | 162 | | RS1/16S105J |
| R | 163 | | RS1/16S222J |
| R | 202 | | RS1/16S223J |
| R | 203 | | RS1/16S225J |
| R | 204 | | RS1/16S103J |
| R | 206 | | RS1/16S220J |
| R | 207 | | RS1/16S101J |
| R | 208 | | RS1/16S102J |
| R | 209 | | RS1/16S471J |
| R | 214 | | RS1/16S822J |
| R | 215 | | RS1/16S822J |
| R | 217 | | RS1/16S102J |
| R | 231 | | RS1/16S272J |
| R | 232 | | RS1/16S473J |
| R | 237 | | RS1/16S103J |
| R | 238 | | RS1/16S104J |

| Circuit Symbol & No. | Part Name | Part No. |
|---|---|---|
| R 239 | | RS1/16S104J |
| R 240 | | RS1/16S332J |
| R 241 | | RS1/16S202J |
| R 243 | | RS1/16S123J |
| R 244 | | RS1/16S103J |
| R 247 | | RS1/16S123J |

CAPACITORS

| | | |
|---|---|---|
| C 1 | | CCSQCH6R0D50 |
| C 2 | | CCSRCK2R0C50 |
| C 4 | | CCSRCH820J50 |
| C 6 | | CCSRCH820J50 |
| C 8 | | CKSRYB103K25 |
| C 9 | | CKSQYB104K16 |
| C 10 | | CCSRCKR50C50 |
| C 11 | | CEJA1R0M50 |
| C 12 | | CKSRYB222K50 |
| C 13 | | CKSRYB222K50 |
| C 14 | | CCSRCH220J50 |
| C 16 | | CCSRCH8R0D50 |
| C 17 | | CKSRYB222K50 |
| C 18 | | CKSRYB103K25 |
| C 19 | | CKSRYB222K50 |
| C 20 | | CKSRYB222K50 |
| C 21 | | CEJA100M16 |
| C 22 | | CCSRTH9R0D50 |
| C 23 | | CCSRTH120J50 |
| C 24 | | CCSRCH471J50 |
| C 25 | | CKSRYB103K25 |
| C 31 | | CKSRYB103K25 |
| C 32 | | CKSQYB472K50 |
| C 33 | | CCSRCH5R0C50 |
| C 34 | | CKSQYB104K16 |
| C 36 | | CCSRRH201J50 |
| C 51 | | CKSRYB223K25 |
| C 52 | | CKSRYB103K25 |
| C 54 | | CCSRCH470J50 |
| C 55 | | CKSQYB223K25 |
| C 56 | | CKSQYB104K16 |
| C 57 | | CKSRYB472K50 |
| C 58 | | CEJA330M10 |
| C 59 | | CKSRYB103K25 |
| C 61 | | CCSRCH270J50 |
| C 62 | | CKSRYB103K25 |
| C 63 | | CEJAR15M50 |
| C 101 | | CEJANP100M10 |
| C 102 | | CKSRYB182K50 |
| C 103 | | CKSRYB682K25 |
| C 104 | | CEJA2R2M50 |
| C 105 | | CKSRYB103K25 |
| C 106 | | CCSRCH151J50 |
| C 107 | | CKSRYB103K25 |
| C 151 | | CKSRYB472K50 |
| C 152 | | CKSQYB104K16 |
| C 153 | | CEJA3R3M50 |
| C 154 | | CKSQYB104K16 |
| C 157 | | CEJA3R3M50 |
| C 158 | | CKSYB474K16 |
| C 159 | | CEJA220M6R3 |
| C 160 | | CKSQYB104K16 |
| C 161 | | CKSQYB104K16 |
| C 162 | | CEJA3R3M50 |
| C 163 | | CKSRYB102K50 |
| C 170 | | CCSRCH100D50 |
| C 201 | | CCSRCH471J50 |
| C 202 | | CCSRCH100D50 |
| C 203 | | CKSRYB332K50 |
| C 204 | | CKSQYB473K16 |
| C 205 | | CKSQYB473K16 |
| C 206 | | CKSQYB104K16 |
| C 207 | | CCSRCH560J50 |
| C 209 | | CKSQYB104K16 |
| C 211 | | CCSRCH101J50 |
| C 212 | | CEJA470M6R3 |
| C 213 | | CKSRYB103K25 |
| C 216 | | CCSRCH101J50 |
| C 217 | | CEJA1R5M50 |
| C 219 | | CCSRCH471J50 |
| C 220 | | CKSRYB103K25 |
| C 230 | | CKSRYB103K25 |
| C 231 | | CCSRCH330J50 |
| C 232 | | CCSRCH150J50 |
| C 233 | | CKSQYB104K16 |
| C 234 | | CEJA330M10 |
| C 235 | | CKSRYB332K50 |
| C 236 | | CKSQYB473K16 |
| C 237 | | CCSRCH120J50 |
| C 239 | | CKSRYB472K50 |
| C 240 | | CEJAR47M50 |
| C 241 | | CKSQYB104K16 |
| C 242 | | CEJAR47M50 |
| C 243 | | CEJAR33M50 |
| C 244 | | CKSQYB473K16 |
| C 245 | | CKSRYB123K25 |
| C 246 | | CKSQYB473K16 |
| C 250 | | CCSRCH471J50 |

**A** Unit Number : CWM5048
Unit Name : Tuner Amp Unit(DEH-P835R/EW)

MISCELLANEOUS

| | | | |
|---|---|---|---|
| IC 101 | IC | | TA2050S |
| IC 102 | IC | | CA0008AM |
| IC 171 | IC | | TDA7386 |
| IC 201 | IC | | PM0008BF |
| IC 251 | IC | | TC4066BF |
| IC 252 | IC | | NJM4558MD |
| IC 253 | IC | | NJM4558MD |
| IC 254 | IC | | NJM4558MD |
| IC 255 | IC | | NJM4558MD |
| IC 302 | IC | | NJM4558MD |
| IC 303 | IC | | NJM4558MD |
| IC 304 | IC | | NJM4558MD |
| IC 305 | IC | | NJM4558MD |
| IC 306 | IC | | NJM4558MD |
| IC 307 | IC | | TC4051BF |
| IC 351 | IC | | NJM4558MD |
| IC 352 | IC | | NJM4558MD |
| IC 353 | IC | | NJM4558MD |
| IC 354 | IC | | NJM4558MD |
| IC 401 | IC | | PN2005B |
| IC 503 | IC | | NJM2903M |
| IC 504 | IC | | PNW001B |
| IC 601 | IC | | PD4771A |
| IC 971 | IC | | S-8073OANDT |
| Q 101 | Chip Transistor | | 2SA1162 |
| Q 102 | Transistor | | DTC124EK |
| Q 151 | Transistor | | 2SD1757K |
| Q 152 | Transistor | | 2SD1757K |
| Q 153 | Transistor | | IMH3A |
| Q 154 | Transistor | | DTA114EK |
| Q 171 | Transistor | | DTC124EK |
| Q 251 | Transistor | | DTC124EK |
| Q 252 | Transistor | | DTC124EK |
| Q 354 | Transistor | | IMH3A |
| Q 355 | Transistor | | IMH3A |

| Circuit Symbol & No. | Part Name | Part No. |
|---|---|---|
| Q 356 | Transistor | IMH3A |
| Q 357 | Transistor | 2SC2712 |
| Q 358 | Transistor | 2SC2712 |
| Q 359 | Transistor | 2SC2712 |
| Q 360 | Transistor | 2SC2712 |
| Q 361 | Transistor | IMD2A |
| Q 401 | Transistor | 2SC2712 |
| Q 402 | Transistor | 2SC2712 |
| Q 403 | Transistor | DTC124EK |
| Q 404 | Transistor | IMD2A |
| Q 501 | Transistor | 2SC2712 |
| Q 601 | Transistor | DTA114EK |
| Q 602 | Transistor | DTC114EK |
| Q 651 | Transistor | IMD2A |
| Q 652 | Transistor | DTC123EK |
| Q 653 | Transistor | DTC123EK |
| Q 654 | Transistor | DTC123EK |
| Q 801 | Transistor | 2SC2712 |
| Q 802 | Transistor | IMD2A |
| Q 803 | Transistor | 2SD1760F5 |
| Q 804 | Transistor | DTC114EK |
| Q 805 | Transistor | 2SB1238 |
| Q 806 | Transistor | DTC143EK |
| Q 807 | Transistor | 2SC3295 |
| Q 808 | Chip Transistor | 2SA1162 |
| Q 911 | Transistor | 2SD1760F5 |
| Q 921 | Transistor | 2SB1243 |
| Q 931 | Transistor | 2SB1243 |
| Q 932 | Transistor | DTC124EK |
| Q 941 | Transistor | 2SD2396 |
| Q 942 | Transistor | IMD2A |
| Q 944 | Transistor | 2SC2712 |
| Q 945 | Transistor | 2SC2712 |
| Q 951 | Transistor | DTC114EK |
| Q 952 | Transistor | IMX1 |
| Q 961 | Chip Transistor | 2SA1162 |
| Q 971 | Transistor | DTA144TK |
| Q 981 | Transistor | 2SA1674 |
| Q 982 | Transistor | 2SA1674 |
| Q 983 | Transistor | IMH1A |
| Q 991 | Transistor | IMD2A |
| Q 992 | Transistor | 2SD2396 |
| D 301 | Diode | MA110 |
| D 302 | Diode | MA110 |
| D 303 | Diode | MA110 |
| D 304 | Diode | MA110 |
| D 305 | Diode | MA110 |
| D 306 | Diode | MA110 |
| D 307 | Diode | MA110 |
| D 308 | Diode | MA110 |
| D 309 | Diode | MA110 |
| D 310 | Diode | MA110 |
| D 351 | Chip Diode | MA151WK |
| D 353 | Diode | HZS7L(B3) |
| D 354 | Diode | MA110 |
| D 402 | Chip Diode | MA151WK |
| D 403 | Chip Diode | MA151WK |
| D 501 | Diode | MA3047(M) |
| D 653 | LED | BR4361F |
| D 654 | Diode | MA3160(H) |
| D 655 | Diode | MA3160(H) |
| D 656 | Diode | MA3160(H) |
| D 801 | Diode | DA204K |
| D 802 | Diode | MA3047(M) |
| D 803 | Diode | MA3082(L) |

| Circuit Symbol & No. | Part Name | Part No. |
|---|---|---|
| D 804 | Diode | MA3062(M) |
| D 805 | Diode | DA204K |
| D 806 | Diode | DA204K |
| D 807 | Diode | DA204K |
| D 808 | Chip Diode | MA151WK |
| D 901 | Diode | ERA15-02VH |
| D 902 | Diode | ERA15-02VH |
| D 911 | Diode | ERA15-02VH |
| D 912 | Diode | HZS6L(B1) |
| D 921 | Diode | ERA15-02VH |
| D 922 | Diode | ERA15-02VH |
| D 931 | Diode | ERA15-02VH |
| D 932 | Diode | ERA15-02VH |
| D 941 | Diode | HZS9L(B3) |
| D 942 | Diode | MA3082(L) |
| D 951 | Diode | ERA15-02VH |
| D 952 | Diode | HZS7L(C3) |
| D 953 | Diode | HZS7L(A1) |
| D 961 | Chip Diode | MA151WK |
| D 971 | Chip Diode | MA151K |
| D 991 | Diode | HZS9L(B1) |
| L 101 | Inductor | LAU3R3K |
| L 351 | Inductor | LCTBR47K2125 |
| L 352 | Inductor | LCTBR47K2125 |
| L 353 | Inductor | LCTBR47K2125 |
| L 354 | Inductor | LCTBR47K2125 |
| L 402 | Ferri-Inductor | LAU2R2K |
| L 403 | Ferri-Inductor | LAU2R2K |
| L 501 | Ferri-Inductor | LAU2R2K |
| L 602 | Ferri-Inductor | LAU2R2K |
| L 603 | Inductor | LAU100K |
| L 662 | Ferri-Inductor | LAU220K |
| L 961 | Ferri-Inductor | LAU2R2K |
| TH 601 | Thermistor | CCX1031 |
| X 401 | Crystal Resonator 7.200MHz | CSS1379 |
| X 501 | Crystal Resonator 4.332MHz | CSS1056 |
| X 601 | Resonator 12.58291MHz | CSS1402 |
| S 971 | Switch(RESET) | CSG1046 |
| SW 351 | Switch(PRE OUT/MAIN IN) | CSH1009 |
| IL 801 | Lamp 14V 40mA | CEL1263 |
| VR 501 | Semi-fixed 22kΩ(B) | CCP1129 |
| FU 801 | 0.4A | ICP-N10 |
| | FM/AM Tuner Unit | CWE1416 |
| BZ 601 | Buzzer | CPV1011 |

RESISTORS

| | |
|---|---|
| R 11 | RS1/10S393J |
| R 12 | RS1/10S393J |
| R 13 | RS1/10S821J |
| R 14 | RS1/10S821J |
| R 15 | RS1/10S821J |
| R 16 | RS1/10S821J |
| R 21 | RS1/10S473J |
| R 22 | RS1/10S473J |
| R 23 | RS1/10S473J |
| R 24 | RS1/10S473J |
| R 25 | RS1/10S102J |
| R 26 | RS1/10S473J |
| R 28 | RS1/10S0R0J |
| R 101 | RS1/10S101J |
| R 102 | RS1/10S101J |
| R 103 | RS1/10S620J |
| R 104 | RS1/10S222J |
| R 105 | RS1/10S102J |
| R 106 | RS1/10S102J |
| R 107 | RS1/10S473J |

| =====Circuit Symbol & No.===Part Name | | Part No. | =====Circuit Symbol & No.===Part Name | | Part No. |
|---|---|---|---|---|---|
| R | 108 | RS1/10S473J | R | 275 | RS1/10S2002F |
| R | 109 | RS1/10S332J | R | 276 | RS1/10S4322F |
| R | 110 | RS1/10S562J | R | 277 | RS1/10S4322F |
| R | 111 | RS1/10S472J | R | 278 | RS1/10S2212F |
| R | 112 | RS1/10S103J | R | 279 | RS1/10S2742F |
| R | 113 | RS1/10S181J | R | 280 | RS1/10S333J |
| R | 114 | RS1/10S223J | R | 281 | RS1/10S2002F |
| R | 115 | RS1/10S102J | R | 282 | RS1/10S473J |
| R | 116 | RS1/10S102J | R | 283 | RS1/10S2212F |
| R | 117 | RS1/10S223J | R | 284 | RS1/10S473J |
| R | 118 | RS1/10S181J | R | 285 | RS1/10S473J |
| R | 151 | RS1/10S272J | R | 287 | RS1/10S3322F |
| R | 152 | RS1/10S272J | R | 289 | RS1/10S473J |
| R | 155 | RS1/10S224J | R | 301 | RS1/10S223J |
| R | 156 | RS1/10S224J | R | 302 | RS1/10S223J |
| R | 157 | RS1/10S222J | R | 303 | RA3C102J |
| R | 158 | RS1/10S222J | R | 307 | RS1/10S473J |
| R | 159 | RS1/10S223J | R | 308 | RS1/10S123J |
| R | 160 | RS1/10S223J | R | 309 | RS1/10S102J |
| R | 171 | RS1/10S103J | R | 310 | RS1/10S102J |
| R | 172 | RS1/10S331J | R | 311 | RS1/10S222J |
| R | 173 | RS1/10S103J | R | 312 | RS1/10S473J |
| R | 174 | RS1/10S103J | R | 313 | RS1/10S333J |
| R | 201 | RS1/10S102J | R | 314 | RS1/10S132J |
| R | 202 | RS1/10S102J | R | 315 | RS1/10S134J |
| R | 203 | RS1/10S332J | R | 316 | RS1/10S225J |
| R | 204 | RS1/10S332J | R | 322 | RS1/10S393J |
| R | 205 | RS1/10S102J | R | 323 | RS1/10S162J |
| R | 206 | RS1/10S102J | R | 324 | RS1/10S164J |
| R | 207 | RS1/10S103J | R | 325 | RS1/10S225J |
| R | 208 | RS1/10S103J | R | 326 | RS1/10S225J |
| R | 209 | RS1/10S102J | R | 327 | RS1/10S273J |
| R | 210 | RS1/10S103J | R | 328 | RS1/10S112J |
| R | 211 | RS1/10S272J | R | 329 | RS1/10S114J |
| R | 212 | RS1/10S272J | R | 330 | RS1/10S363J |
| R | 213 | RS1/10S151J | R | 331 | RS1/10S152J |
| R | 214 | RS1/10S151J | R | 332 | RS1/10S154J |
| R | 215 | RS1/10S101J | R | 333 | RS1/10S225J |
| R | 216 | RS1/10S101J | R | 334 | RS1/10S225J |
| R | 217 | RS1/10S472J | R | 335 | RS1/10S433J |
| R | 218 | RA3C472J | R | 336 | RS1/10S182J |
| R | 251 | RS1/10S472J | R | 337 | RS1/10S184J |
| R | 252 | RS1/10S472J | R | 338 | RS1/10S623J |
| R | 253 | RS1/10S3322F | R | 339 | RS1/10S272J |
| R | 254 | RS1/10S3322F | R | 340 | RS1/10S224J |
| R | 255 | RS1/10S3322F | R | 341 | RS1/10S225J |
| R | 256 | RS1/10S3322F | R | 342 | RS1/10S225J |
| R | 257 | RS1/10S6812F | R | 343 | RS1/10S1213F |
| R | 258 | RS1/10S6812F | R | 344 | RS1/10S512J |
| R | 259 | RS1/10S1652F | R | 345 | RS1/10S474J |
| R | 260 | RS1/10S3322F | R | 347 | RS1/10S122J |
| R | 261 | RS1/10S3322F | R | 348 | RS1/10S1213F |
| R | 262 | RS1/10S471J | R | 349 | RS1/10S225J |
| R | 263 | RS1/10S331J | R | 350 | RS1/10S303J |
| R | 264 | RS1/10S472J | R | 351 | RS1/10S270J |
| R | 265 | RS1/10S561J | R | 371 | RS1/10S821J |
| R | 266 | RS1/10S152J | R | 372 | RS1/10S821J |
| R | 267 | RS1/10S362J | R | 373 | RS1/10S223J |
| R | 268 | RS1/10S8252F | R | 374 | RS1/10S223J |
| R | 269 | RS1/10S1213F | R | 375 | RS1/10S222J |
| R | 270 | RS1/10S1213F | R | 376 | RS1/10S222J |
| R | 271 | RS1/10S8252F | R | 377 | RS1/10S222J |
| R | 272 | RS1/10S1003F | R | 378 | RS1/10S222J |
| R | 273 | RS1/10S1003F | R | 379 | RS1/10S392J |
| R | 274 | RS1/10S2002F | R | 380 | RS1/10S392J |

| =====Circuit Symbol & No.===Part Name | Part No. |
|---|---|
| R 381 | RS1/10S392J |
| R 382 | RS1/10S392J |
| R 383 | RS1/10S393J |
| R 384 | RS1/10S393J |
| R 385 | RS1/10S393J |
| R 386 | RS1/10S393J |
| R 387 | RS1/10S334J |
| R 388 | RS1/10S334J |
| R 389 | RS1/10S334J |
| R 390 | RS1/10S334J |
| R 391 | RS1/10S473J |
| R 392 | RS1/10S473J |
| R 393 | RS1/10S473J |
| R 394 | RS1/10S473J |
| R 395 | RS1/10S334J |
| R 396 | RS1/10S334J |
| R 397 | RS1/10S334J |
| R 398 | RS1/10S334J |
| R 399 | RS1/10S393J |
| R 400 | RS1/10S393J |
| R 401 | RS1/10S472J |
| R 402 | RS1/10S224J |
| R 403 | RS1/10S103J |
| R 405 | RS1/10S105J |
| R 407 | RS1/10S562J |
| R 409 | RS1/10S681J |
| R 410 | RS1/10S682J |
| R 411 | RS1/10S472J |
| R 412 | RS1/10S222J |
| R 413 | RS1/10S222J |
| R 414 | RS1/10S102J |
| R 416 | RS1/10S473J |
| R 417 | RS1/10S0R0J |
| R 418 | RS1/10S102J |
| R 419 | RS1/10S682J |
| R 420 | RS1/10S472J |
| R 421 | RS1/10S561J |
| R 422 | RS1/10S103J |
| R 423 | RS1/10S222J |
| R 424 | RS1/10S152J |
| R 425 | RS1/10S392J |
| R 426 | RS1/10S392J |
| R 427 | RS1/10S272J |
| R 428 | RS1/10S0R0J |
| R 429 | RS1/10S222J |
| R 430 | RS1/10S562J |
| R 433 | RS1/10S472J |
| R 435 | RS1/10S0R0J |
| R 436 | RS1/10S473J |
| R 437 | RS1/10S473J |
| R 501 | RS1/10S562J |
| R 502 | RS1/10S102J |
| R 503 | RS1/10S103J |
| R 504 | RD1/4PU151J |
| R 505 | RS1/10S3322F |
| R 506 | RS1/10S0R0J |
| R 507 | RS1/10S102J |
| R 508 | RA3C102J |
| R 511 | RS1/10S102J |
| R 512 | RS1/10S102J |
| R 513 | RS1/10S222J |
| R 514 | RS1/10S222J |
| R 515 | RS1/10S684J |
| R 516 | RS1/10S681J |
| R 517 | RS1/10S562J |

| =====Circuit Symbol & No.===Part Name | Part No. |
|---|---|
| R 518 | RS1/10S222J |
| R 519 | RS1/10S105J |
| R 524 | RS1/10S681J |
| R 530 | RS1/10S0R0J |
| R 541 | RS1/10S0R0J |
| R 601 | RS1/10S102J |
| R 604 | RS1/10S681J |
| R 605 | RS1/10S473J |
| R 607 | RS1/10S473J |
| R 608 | RS1/10S473J |
| R 609 | RS1/10S473J |
| R 611 | RA2CQ223J |
| R 612 | RS1/10S473J |
| R 614 | RS1/10S473J |
| R 615 | RS1/10S473J |
| R 616 | RS1/10S393J |
| R 618 | RA3C681J |
| R 619 | RS1/10S681J |
| R 620 | RS1/10S681J |
| R 621 | RA3C222J |
| R 622 | RS1/10S473J |
| R 623 | RN1/10SE2202D |
| R 624 | RA3C473J |
| R 627 | RS1/10S104J |
| R 628 | RS1/10S104J |
| R 629 | RS1/10S102J |
| R 630 | RS1/10S102J |
| R 632 | RS1/10S393J |
| R 637 | RS1/10S473J |
| R 638 | RS1/10S473J |
| R 639 | RS1/10S473J |
| R 641 | RS1/10S473J |
| R 653 | RS1/8S102J |
| R 654 | RS1/8S102J |
| R 655 | RS1/8S102J |
| R 657 | RS1/10S103J |
| R 658 | RS1/10S473J |
| R 659 | RS1/10S473J |
| R 660 | RS1/10S473J |
| R 661 | RS1/8S331J |
| R 662 | RS1/10S163J |
| R 663 | RS1/10S163J |
| R 664 | RS1/10S103J |
| R 665 | RS1/10S163J |
| R 801 | RS1/10S103J |
| R 802 | RS1/10S224J |
| R 803 | RD1/4PU471J |
| R 804 | RS2PMF100J |
| R 805 | RS1/10S222J |
| R 806 | RD1/4PU102J |
| R 807 | RS1/10S104J |
| R 808 | RS1/10S1R0J |
| R 809 | RS1/10S472J |
| R 810 | RS1/10S472J |
| R 811 | RS1/10S104J |
| R 812 | RS1/8S222J |
| R 813 | RS1/8S222J |
| R 814 | RS1/8S222J |
| R 818 | RS1/10S224J |
| R 819 | RS2PMF330J |
| R 912 | RS1/10S332J |
| R 921 | RS1/4S221J |
| R 922 | RS1/10S472J |
| R 923 | RS1/4S221J |

| =====Circuit Symbol & No.===Part Name | | | Part No. |
|---|---|---|---|
| R | 931 | | RS1/4S221J |
| R | 932 | | RS1/10S472J |
| R | 933 | | RS1/4S221J |
| R | 941 | | RS1/10S1R0J |
| R | 942 | | RD1/4PU221J |
| R | 943 | | RS1/8S681J |
| R | 947 | | RS1/10S473J |
| R | 948 | | RS1/10S103J |
| R | 949 | | RS1/10S473J |
| R | 950 | | RS1/10S224J |
| R | 951 | | RS1/10S103J |
| R | 954 | | RS1/10S103J |
| R | 955 | | RS1/10S473J |
| R | 956 | | RS1/10S473J |
| R | 957 | | RS1/10S103J |
| R | 958 | | RS1/10S472J |
| R | 961 | | RS1/8S153J |
| R | 962 | | RS1/10S472J |
| R | 963 | | RS1/10S472J |
| R | 964 | | RS1/10S102J |
| R | 971 | | RS1/10S822J |
| R | 972 | | RS1/10S102J |
| R | 974 | | RS1/10S471J |
| R | 981 | | RS1/10S472J |
| R | 982 | | RD1/4PU102J |
| R | 983 | | RS1/10S472J |
| R | 984 | | RD1/4PU102J |
| R | 991 | | RD1/4PU221J |
| R | 992 | | RS1/10S221J |
| R | 993 | | RS1/10S222J |
| R | 994 | | RS1/10S472J |
| R | 995 | | RS1/10S681J |
| R | 996 | | RA3C102J |
| CAPACITORS | | | |
| C | 101 | | CKSQYB104K50 |
| C | 102 | | CKSQYB104K50 |
| C | 103 | | CKSQYB102K50 |
| C | 104 | | CEJA100M16 |
| C | 105 | | CEJA1R0M50 |
| C | 106 | | CEJA1R0M50 |
| C | 107 | | CEJA100M16 |
| C | 108 | | CEJA1R0M50 |
| C | 109 | | CEJA1R0M50 |
| C | 151 | | CKSQYB223K25 |
| C | 152 | | CKSQYB223K25 |
| C | 153 | | CEJA1R0M50 |
| C | 154 | | CEJA1R0M50 |
| C | 171 | | CKSYB224K16 |
| C | 172 | | CKSYB224K16 |
| C | 173 | | CKSYB224K16 |
| C | 174 | | CKSYB224K16 |
| C | 175 | | CEJA330M16 |
| C | 176 | | CEJA1R0M50 |
| C | 177 | | CCH1125 |
| C | 178 | | CKSQYB104K50 |
| C | 179 | | CEHAR100M16 |
| C | 180 | | CEHAS1R0M50 |
| C | 181 | | CKSQYB102K50 |
| C | 201 | | CEJA1R0M50 |
| C | 202 | | CEJA1R0M50 |
| C | 203 | | CEJA1R0M50 |
| C | 204 | | CEJA1R0M50 |
| C | 205 | | CEJA1R0M50 |
| C | 206 | | CEJA1R0M50 |

| =====Circuit Symbol & No.===Part Name | | | Part No. |
|---|---|---|---|
| C | 207 | | CEJA470M10 |
| C | 208 | | CKSQYB104K50 |
| C | 209 | | CEJA100M16 |
| C | 211 | | CKSQYB822K50 |
| C | 212 | | CKSQYB822K50 |
| C | 213 | | CEJA1R0M50 |
| C | 214 | | CEJA1R0M50 |
| C | 215 | | CKSQYB152K50 |
| C | 216 | | CKSQYB152K50 |
| C | 217 | | CEJANP100M10 |
| C | 218 | | CEJANP100M10 |
| C | 219 | | CKSQYB183K25 |
| C | 220 | | CKSQYB183K25 |
| C | 221 | | CEJANP100M10 |
| C | 222 | | CEJANP100M10 |
| C | 223 | | CKSYB334K16 |
| C | 224 | | CKSYB334K16 |
| C | 225 | | CKSQYB103K50 |
| C | 226 | | CKSQYB103K50 |
| C | 227 | | CKSYB105K16 |
| C | 228 | | CKSYB105K16 |
| C | 229 | | CKSQYB823K25 |
| C | 230 | | CKSQYB823K25 |
| C | 231 | | CKSQYB333K25 |
| C | 232 | | CKSQYB333K25 |
| C | 233 | | CKSQYB104K50 |
| C | 234 | | CKSQYB473K16 |
| C | 235 | | CKSQYB562K50 |
| C | 236 | | CKSQYB104K50 |
| C | 237 | | CKSQYB473K16 |
| C | 238 | | CCSQCH470J50 |
| C | 251 | | CKSQYB104K50 |
| C | 252 | | CKSQYB104K50 |
| C | 253 | | CKSQYB472K50 |
| C | 254 | | CKSYB474K16 |
| C | 255 | | CCSQCH180J50 |
| C | 256 | | CCSQCH180J50 |
| C | 301 | | CEJA100M16 |
| C | 309 | | CKSQYB102K50 |
| C | 310 | | CEJA100M16 |
| C | 311 | | CEJA470M10 |
| C | 312 | | CKSQYB103K50 |
| C | 314 | | CKSQYB152K50 |
| C | 315 | | CKSQYB152K50 |
| C | 316 | | CKSQYB104K50 |
| C | 317 | | CKSQYB332K50 |
| C | 318 | | CKSQYB332K50 |
| C | 319 | | CKSQYB104K50 |
| C | 320 | | CKSQYB104K50 |
| C | 321 | | CKSQYB123K25 |
| C | 322 | | CKSQYB123K25 |
| C | 323 | | CKSQYB223K25 |
| C | 324 | | CKSQYB223K25 |
| C | 325 | | CKSQYB104K50 |
| C | 326 | | CKSQYB104K50 |
| C | 327 | | CKSQYB473K16 |
| C | 328 | | CKSQYB473K16 |
| C | 329 | | CKSQYB823K25 |
| C | 330 | | CKSQYB823K25 |
| C | 331 | | CKSQYB104K50 |
| C | 332 | | CKSQYB104K50 |
| C | 333 | | CKSQYB823K25 |
| C | 334 | | CKSQYB823K25 |
| C | 335 | | CKSQYB821K50 |
| C | 336 | | CKSQYB821K50 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| C 337 | | CKSQYB104K50 |
| C 351 | | CEJA101M10 |
| C 353 | | CEJA100M16 |
| C 354 | | CEJA100M16 |
| C 357 | | CEJA100M16 |
| C 358 | | CEJA100M16 |
| C 359 | | CEJA100M16 |
| C 360 | | CEJA100M16 |
| C 361 | | CKSQYB103K50 |
| C 362 | | CKSQYB103K50 |
| C 363 | | CKSQYB103K50 |
| C 364 | | CKSQYB103K50 |
| C 365 | | CCSQCH560J50 |
| C 366 | | CCSQCH560J50 |
| C 367 | | CCSQCH560J50 |
| C 368 | | CCSQCH560J50 |
| C 369 | | CEJA4R7M35 |
| C 370 | | CEJA4R7M35 |
| C 371 | | CEJA4R7M35 |
| C 372 | | CEJA4R7M35 |
| C 373 | | CEJA4R7M35 |
| C 374 | | CEJA4R7M35 |
| C 375 | | CEJA4R7M35 |
| C 376 | | CEJA4R7M35 |
| C 377 | | CEJA1R0M50 |
| C 378 | | CEJA1R0M50 |
| C 379 | | CEJA1R0M50 |
| C 380 | | CEJA1R0M50 |
| C 401 | | CKSQYB103K50 |
| C 402 | | CKSQYB223K25 |
| C 403 | | CKSQYB103K50 |
| C 405 | | CEJA220M10 |
| C 406 | | CKSQYB103K50 |
| C 407 | | CKSQYB471K50 |
| C 408 | | CCSQCH101J50 |
| C 409 | | CKSQYB223K25 |
| C 410 | | CKSQYB103K50 |
| C 411 | | CKSQYB472K50 |
| C 412 | | CKSQYB103K50 |
| C 413 | | CKSQYB103K50 |
| C 414 | | CEJA220M10 |
| C 415 | | CKSQYB103K50 |
| C 416 | | CEJA220M6R3 |
| C 417 | | CKSQYB103K50 |
| C 418 | | CKSQYB103K50 |
| C 419 | 4.7µF/16V | CCH1250 |
| C 420 | | CKSQYB103K50 |
| C 421 | | CKLSR473K16 |
| C 422 | | CKSQYB332K50 |
| C 423 | | CKSQYB103K50 |
| C 424 | 4.7µF/16V | CCH1250 |
| C 425 | | CKSQYB103K50 |
| C 427 | | CEJAR47M50 |
| C 428 | | CKSQYB103K50 |
| C 429 | | CCSQCH150J50 |
| C 430 | | CCSQCH150J50 |
| C 431 | | CKSQYB103K50 |
| C 432 | | CKSQYB103K50 |
| C 433 | | CCSQCH101J50 |
| C 434 | | CKSQYB103K50 |
| C 435 | | CKSQYB223K25 |
| C 436 | | CKSQYB103K50 |
| C 437 | | CKSQYB102K50 |
| C 438 | | CEJA220M6R3 |
| C 440 | | CKSQYB223K25 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| C 501 | | CKSQYB104K50 |
| C 502 | | CKSQYB223K25 |
| C 503 | | CKSQYB223K25 |
| C 504 | | CCSQCH101J50 |
| C 505 | | CEJA100M16 |
| C 506 | | CKSQYB104K50 |
| C 507 | | CKSQYB222K50 |
| C 508 | | CKSQYB104K50 |
| C 509 | | CKSYB105K16 |
| C 510 | | CKSQYB104K50 |
| C 511 | | CKSQYB472K50 |
| C 512 | | CKSQYB103K50 |
| C 513 | | CKSQYB102K50 |
| C 514 | | CCSQCH270J50 |
| C 515 | | CCSQCH270J50 |
| C 517 | | CCSQCH101J50 |
| C 601 | | CCSQCH180J50 |
| C 602 | | CCSQCH180J50 |
| C 603 | | CEJA101M10 |
| C 604 | | CCSQCH101J50 |
| C 606 | | CCSQCH101J50 |
| C 607 | | CKSQYB102K50 |
| C 608 | | CCSQCH101J50 |
| C 610 | | CCSQCH101J50 |
| C 653 | | CKSQYB103K50 |
| C 654 | | CKSQYB103K50 |
| C 655 | | CKSQYB103K50 |
| C 801 | | CKSQYB103K50 |
| C 802 | 220µF/10V | CCH1014 |
| C 803 | | CCSQCH101J50 |
| C 804 | | CCSQCH101J50 |
| C 805 | 220µF/10V | CCH1014 |
| C 806 | | CCSQCH101J50 |
| C 912 | | CKSQYB472K50 |
| C 913 | | CEJA470M10 |
| C 941 | | CEAS331M10 |
| C 942 | | CKSQYB103K50 |
| C 943 | | CEJA101M16 |
| C 951 | | CKSYF105Z25 |
| C 971 | 0.22F/5.5V | CCL1037 |
| C 972 | | CEJA2R2M50 |
| C 991 | | CKSQYB473K16 |
| C 992 | | CKSQYB102K50 |
| C 993 | | CEJA101M10 |

**E** Unit Number : CWX1889
Unit Name : Control Unit

MISCELLANEOUS

| | | | |
|---|---|---|---|
| IC | 101 | IC | UPC2572GS |
| IC | 201 | IC | UPD63702GF |
| IC | 301 | IC | XLA6997FP |
| IC | 302 | IC | BA6285FP |
| IC | 601 | IC | TA2063F |
| IC | 701 | IC | PQ05TZ51 |
| Q | 101 | Transistor | 2SD1664 |
| Q | 102 | Transistor | UMD2N |
| Q | 601 | Transistor | 2SD1781K |
| Q | 602 | Transistor | 2SD1781K |
| Q | 603 | Transistor | 2SB709A |
| D | 601 | Diode | MA151WA |
| D | 701 | Diode | 1SR154-400 |
| D | 702 | Diode | 1SR154-400 |
| D | 801 | | CL200IRX |
| D | 802 | | CL200IRX |
| X | 201 | Ceramic Resonator 16.93MHz | CSS1363 |
| S | 801 | Switch(HOME) | CSN1028 |
| S | 802 | Switch(CLAMP) | |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| RESISTORS | | |
| R 101 | | RS1/8S100J |
| R 102 | | RS1/8S120J |
| R 103 | | RS1/16S102J |
| R 104 | | RS1/16S822J |
| R 105 | | RS1/16S682J |
| R 106 | | RS1/16S183J |
| R 107 | | RS1/16S822J |
| R 108 | | RS1/16S333J |
| R 109 | | RS1/16S683J |
| R 110 | | RS1/16S134J |
| R 111 | | RS1/16S273J |
| R 112 | | RS1/16S222J |
| R 113 | | RS1/16S103J |
| R 114 | | RS1/16S103J |
| R 115 | | RS1/16S102J |
| R 116 | | RS1/16S163J |
| R 117 | | RS1/16S163J |
| R 201 | | RS1/16S104J |
| R 202 | | RS1/16S473J |
| R 304 | | RS1/16S0R0J |
| R 501 | | RS1/16S0R0J |
| R 505 | | RS1/16S102J |
| R 507 | | RA4C102J |
| R 508 | | RA4C681J |
| R 510 | | RS1/10S0R0J |
| R 601 | | RS1/16S102J |
| R 602 | | RS1/16S102J |
| R 603 | | RS1/16S223J |
| R 604 | | RS1/16S223J |
| R 605 | | RS1/16S162J |
| R 606 | | RS1/16S162J |
| R 607 | | RS1/16S103J |
| R 801 | | RS1/8S751J |
| R 802 | | RS1/8S751J |
| CAPACITORS | | |
| C 101 | | CEV101M6R3 |
| C 102 | | CKSQYB104K16 |
| C 103 | | CEV470M6R3 |
| C 104 | | CKSYB334K16 |
| C 105 | | CCSRCH330J50 |
| C 106 | | CKSRYB103K25 |
| C 107 | | CEV4R7M35 |
| C 108 | | CKSQYB273K50 |
| C 109 | | CCSRCH101J50 |
| C 110 | | CKSQYB104K16 |
| C 111 | | CKSRYB332K50 |
| C 112 | | CKSQYB473K16 |
| C 113 | | CKSRYB103K25 |
| C 114 | | CKSRYB391K50 |
| C 115 | | CCSRCH121J50 |
| C 116 | | CKSRYB682K25 |
| C 117 | | CKSRYB333K16 |
| C 118 | | CKSYB334K16 |
| C 119 | | CKSYB334K16 |
| C 120 | | CKSYB334K16 |
| C 121 | | CKSYB334K16 |
| C 122 | | CKSQYB104K16 |
| C 123 | | CKSRYB472K50 |
| C 124 | | CKSQYB104K16 |
| C 125 | | CCSRCH6R0D50 |
| C 126 | | CKSRYB153K25 |
| C 127 | | CCSRCH102J25 |
| C 201 | | CKSYB334K16 |
| C 202 | | CKSQYB104K16 |
| C 203 | | CKSQYB104K16 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| C 303 | | CEV470M16 |
| C 304 | | CKSRYB103K25 |
| C 305 | | CKSRYB103K25 |
| C 306 | | CKSRYB103K25 |
| C 502 | | CKSRYB471K50 |
| C 601 | | CEV101M6R3 |
| C 602 | | CKSQYB104K16 |
| C 603 | | CEV4R7M35 |
| C 604 | | CEV4R7M35 |
| C 605 | | CKSRYB152K50 |
| C 606 | | CKSRYB152K50 |
| C 607 | | CEV220M6R3 |
| C 701 | 22µF/6.3V | CCH1233 |
| C 702 | | CKSYB334K16 |
| C 703 | | CEV101M6R3 |
| C 901 | | CCSRCH471J50 |
| C 902 | | CCSRCH271J50 |
| C 903 | | CCSRCH471J50 |
| C 904 | | CCSRCH101J50 |

**A** Unit Number : CWM5053
Unit Name : Tuner Amp Unit(DEH-P735R/EW)

| MISCELLANEOUS | | | |
|---|---|---|---|
| IC 101 | IC | | TA2050S |
| IC 102 | IC | | CA0008AM |
| IC 171 | IC | | TDA7386 |
| IC 201 | IC | | PM0008BF |
| IC 401 | IC | | PM2005B |
| IC 503 | IC | | NJM2903M |
| IC 504 | IC | | PMW001B |
| IC 601 | IC | | PD4771A |
| IC 971 | IC | | S-80730ANDT |
| Q 101 | Chip Transistor | | 2SA1162 |
| Q 102 | Transistor | | DTC124EK |
| Q 151 | Transistor | | 2SD1757K |
| Q 152 | Transistor | | 2SD1757K |
| Q 153 | Transistor | | IMH3A |
| Q 154 | Transistor | | DTA114EK |
| Q 171 | Transistor | | DTC124EK |
| Q 354 | Transistor | | IMH3A |
| Q 355 | Transistor | | IMH3A |
| Q 361 | Transistor | | IMD2A |
| Q 401 | Transistor | | 2SC2712 |
| Q 402 | Transistor | | 2SC2712 |
| Q 403 | Transistor | | DTC124EK |
| Q 404 | Transistor | | IMD2A |
| Q 501 | Transistor | | 2SC2712 |
| Q 601 | Transistor | | DTA114EK |
| Q 602 | Transistor | | DTC114EK |
| Q 651 | Transistor | | IMD2A |
| Q 652 | Transistor | | DTC143EK |
| Q 653 | Transistor | | DTC123EK |
| Q 654 | Transistor | | DTC123EK |
| Q 801 | Transistor | | 2SC2712 |
| Q 802 | Transistor | | IMD2A |
| Q 803 | Transistor | | 2SD1760F5 |
| Q 804 | Transistor | | DTC114EK |
| Q 805 | Transistor | | 2SB1238 |
| Q 806 | Transistor | | DTC143EK |
| Q 807 | Transistor | | 2SC3295 |
| Q 808 | Chip Transistor | | 2SA1162 |
| Q 911 | Transistor | | 2SD1760F5 |
| Q 921 | Transistor | | 2SB1243 |
| Q 931 | Transistor | | 2SB1243 |
| Q 932 | Transistor | | DTC124EK |
| Q 941 | Transistor | | 2SD2396 |
| Q 942 | Transistor | | IMD2A |
| Q 944 | Transistor | | 2SC2712 |

| Circuit Symbol & No. | Part Name | Part No. |
|---|---|---|
| Q 945 | Transistor | 2SC2712 |
| Q 951 | Transistor | DTC114EK |
| Q 952 | Transistor | IMX1 |
| Q 961 | Chip Transistor | 2SA1162 |
| Q 971 | Transistor | DTA144TK |
| Q 981 | Transistor | 2SA1674 |
| Q 982 | Transistor | 2SA1674 |
| Q 983 | Transistor | IMH1A |
| Q 991 | Transistor | IMD2A |
| Q 992 | Transistor | 2SD2396 |
| D 351 | Chip Diode | MA151WK |
| D 354 | Diode | MA110 |
| D 402 | Chip Diode | MA151WK |
| D 403 | Chip Diode | MA151WK |
| D 501 | Diode | MA3047(M) |
| D 653 | LED | BR4361F |
| D 654 | Diode | MA3160(H) |
| D 655 | Diode | MA3160(H) |
| D 656 | Diode | MA3160(H) |
| D 801 | Diode | DA204K |
| D 802 | Diode | MA3047(M) |
| D 803 | Diode | MA3082(L) |
| D 804 | Diode | MA3062(M) |
| D 805 | Diode | DA204K |
| D 806 | Diode | DA204K |
| D 807 | Diode | DA204K |
| D 808 | Chip Diode | MA151WK |
| D 901 | Diode | ERA15-02VH |
| D 902 | Diode | ERA15-02VH |
| D 911 | Diode | ERA15-02VH |
| D 912 | Diode | HZS6L(B1) |
| D 921 | Diode | ERA15-02VH |
| D 922 | Diode | ERA15-02VH |
| D 931 | Diode | ERA15-02VH |
| D 932 | Diode | ERA15-02VH |
| D 941 | Diode | HZS9L(B3) |
| D 942 | Diode | MA3082(L) |
| D 951 | Diode | ERA15-02VH |
| D 952 | Diode | HZS7L(C3) |
| D 953 | Diode | HZS7L(A1) |
| D 961 | Chip Diode | MA151WK |
| D 971 | Chip Diode | MA151K |
| D 991 | Diode | HZS9L(B1) |
| L 101 | Inductor | LAU3R3K |
| L 402 | Ferri-Inductor | LAU2R2K |
| L 403 | Ferri-Inductor | LAU2R2K |
| L 501 | Ferri-Inductor | LAU2R2K |
| L 602 | Ferri-Inductor | LAU2R2K |
| L 603 | Inductor | LAU100K |
| L 662 | Ferri-Inductor | LAU220K |
| L 961 | Ferri-Inductor | LAU2R2K |
| TH 601 | Thermistor | CCX1031 |
| X 401 | Crystal Resonator 7.200MHz | CSS1379 |
| X 501 | Crystal Resonator 4.332MHz | CSS1056 |
| X 601 | Resonator 12.58291MHz | CSS1402 |
| S 971 | Switch(RESET) | CSG1046 |
| IL 801 | Lamp 14V 40mA | CEL1263 |
| VR 501 | Semi-fixed 22kΩ(B) | CCP1129 |
| FU 801 | 0.4A | ICP-N10 |
| | FM/AM Tuner Unit | CWE1416 |
| BZ 601 | Buzzer | CPV1011 |

RESISTORS

| Circuit Symbol & No. | Part Name | Part No. |
|---|---|---|
| R 13 | | RS1/10S821J |
| R 14 | | RS1/10S821J |
| R 17 | | RS1/10S0R0J |
| R 18 | | RS1/10S0R0J |
| R 21 | | RS1/10S473J |
| R 22 | | RS1/10S473J |
| R 25 | | RS1/10S102J |
| R 26 | | RS1/10S473J |
| R 101 | | RS1/10S101J |
| R 102 | | RS1/10S101J |
| R 103 | | RS1/10S620J |
| R 104 | | RS1/10S222J |
| R 105 | | RS1/10S102J |
| R 106 | | RS1/10S102J |
| R 107 | | RS1/10S473J |
| R 108 | | RS1/10S473J |
| R 109 | | RS1/10S332J |
| R 110 | | RS1/10S562J |
| R 111 | | RS1/10S472J |
| R 112 | | RS1/10S103J |
| R 113 | | RS1/10S181J |
| R 114 | | RS1/10S223J |
| R 115 | | RS1/10S102J |
| R 116 | | RS1/10S102J |
| R 117 | | RS1/10S223J |
| R 118 | | RS1/10S181J |
| R 151 | | RS1/10S272J |
| R 152 | | RS1/10S272J |
| R 155 | | RS1/10S224J |
| R 156 | | RS1/10S224J |
| R 157 | | RS1/10S222J |
| R 158 | | RS1/10S222J |
| R 159 | | RS1/10S223J |
| R 160 | | RS1/10S223J |
| R 171 | | RS1/10S103J |
| R 172 | | RS1/10S331J |
| R 173 | | RS1/10S103J |
| R 174 | | RS1/10S103J |
| R 201 | | RS1/10S102J |
| R 202 | | RS1/10S102J |
| R 203 | | RS1/10S332J |
| R 204 | | RS1/10S332J |
| R 205 | | RS1/10S102J |
| R 206 | | RS1/10S102J |
| R 207 | | RS1/10S103J |
| R 208 | | RS1/10S103J |
| R 209 | | RS1/10S102J |
| R 210 | | RS1/10S103J |
| R 211 | | RS1/10S272J |
| R 212 | | RS1/10S272J |
| R 213 | | RS1/10S151J |
| R 214 | | RS1/10S151J |
| R 215 | | RS1/10S101J |
| R 216 | | RS1/10S101J |
| R 217 | | RS1/10S472J |
| R 218 | | RA3C472J |
| R 290 | | RS1/10S0R0J |
| R 291 | | RS1/10S0R0J |
| R 308 | | RS1/10S123J |
| R 371 | | RS1/10S821J |
| R 372 | | RS1/10S821J |
| R 373 | | RS1/10S223J |
| R 374 | | RS1/10S223J |
| R 401 | | RS1/10S472J |
| R 402 | | RS1/10S224J |
| R 403 | | RS1/10S103J |
| R 405 | | RS1/10S105J |
| R 407 | | RS1/10S562J |
| R 409 | | RS1/10S681J |
| R 410 | | RS1/10S682J |

| =====Circuit Symbol & No.===Part Name | | | Part No. |
|---|---|---|---|
| R | 411 | | RS1/10S472J |
| R | 412 | | RS1/10S222J |
| R | 413 | | RS1/10S222J |
| R | 414 | | RS1/10S102J |
| R | 416 | | RS1/10S473J |
| R | 417 | | RS1/10S0R0J |
| R | 418 | | RS1/10S102J |
| R | 419 | | RS1/10S682J |
| R | 420 | | RS1/10S472J |
| R | 421 | | RS1/10S561J |
| R | 422 | | RS1/10S103J |
| R | 423 | | RS1/10S222J |
| R | 424 | | RS1/10S152J |
| R | 425 | | RS1/10S392J |
| R | 426 | | RS1/10S392J |
| R | 427 | | RS1/10S272J |
| R | 428 | | RS1/10S0R0J |
| R | 429 | | RS1/10S222J |
| R | 430 | | RS1/10S562J |
| R | 433 | | RS1/10S472J |
| R | 435 | | RS1/10S0R0J |
| R | 436 | | RS1/10S473J |
| R | 437 | | RS1/10S473J |
| R | 501 | | RS1/10S562J |
| R | 502 | | RS1/10S102J |
| R | 503 | | RS1/10S103J |
| R | 504 | | RD1/4PU151J |
| R | 505 | | RS1/10S3322F |
| R | 506 | | RS1/10S0R0J |
| R | 507 | | RS1/10S102J |
| R | 508 | | RA3C102J |
| R | 511 | | RS1/10S102J |
| R | 512 | | RS1/10S102J |
| R | 513 | | RS1/10S222J |
| R | 514 | | RS1/10S222J |
| R | 515 | | RS1/10S684J |
| R | 516 | | RS1/10S681J |
| R | 517 | | RS1/10S562J |
| R | 518 | | RS1/10S222J |
| R | 519 | | RS1/10S105J |
| R | 524 | | RS1/10S681J |
| R | 530 | | RS1/10S0R0J |
| R | 541 | | RS1/10S0R0J |
| R | 601 | | RS1/10S102J |
| R | 604 | | RS1/10S681J |
| R | 605 | | RS1/10S473J |
| R | 607 | | RS1/10S473J |
| R | 608 | | RS1/10S473J |
| R | 609 | | RS1/10S473J |
| R | 611 | | RA2CQ223J |
| R | 612 | | RS1/10S473J |
| R | 615 | | RS1/10S473J |
| R | 616 | | RS1/10S393J |
| R | 617 | | RS1/10S473J |
| R | 618 | | RA3C681J |
| R | 619 | | RS1/10S681J |
| R | 620 | | RS1/10S681J |
| R | 621 | | RA3C222J |
| R | 622 | | RS1/10S473J |
| R | 623 | | RN1/10SE2202D |
| R | 624 | | RA3C473J |
| R | 627 | | RS1/10S104J |
| R | 628 | | RS1/10S104J |
| R | 629 | | RS1/10S102J |

| =====Circuit Symbol & No.===Part Name | | | Part No. |
|---|---|---|---|
| R | 630 | | RS1/10S102J |
| R | 632 | | RS1/10S393J |
| R | 636 | | RS1/10S473J |
| R | 638 | | RS1/10S473J |
| R | 639 | | RS1/10S473J |
| R | 641 | | RS1/10S473J |
| R | 653 | | RS1/8S102J |
| R | 654 | | RS1/8S102J |
| R | 655 | | RS1/8S102J |
| R | 657 | | RS1/10S103J |
| R | 658 | | RS1/10S473J |
| R | 659 | | RS1/10S473J |
| R | 660 | | RS1/10S473J |
| R | 661 | | RS1/8S331J |
| R | 662 | | RS1/10S223J |
| R | 663 | | RS1/10S163J |
| R | 664 | | RS1/10S103J |
| R | 665 | | RS1/10S163J |
| R | 801 | | RS1/10S103J |
| R | 802 | | RS1/10S224J |
| R | 803 | | RD1/4PU471J |
| R | 804 | | RS2PMF100J |
| R | 805 | | RS1/10S222J |
| R | 806 | | RD1/4PU102J |
| R | 807 | | RS1/10S104J |
| R | 808 | | RS1/10S1R0J |
| R | 809 | | RS1/10S472J |
| R | 810 | | RS1/10S472J |
| R | 811 | | RS1/10S104J |
| R | 812 | | RS1/8S222J |
| R | 813 | | RS1/8S222J |
| R | 814 | | RS1/8S222J |
| R | 818 | | RS1/10S224J |
| R | 819 | | RS2PMF330J |
| R | 912 | | RS1/10S332J |
| R | 921 | | RS1/4S221J |
| R | 922 | | RS1/10S472J |
| R | 923 | | RS1/4S221J |
| R | 931 | | RS1/4S221J |
| R | 932 | | RS1/10S472J |
| R | 933 | | RS1/4S221J |
| R | 941 | | RS1/10S1R0J |
| R | 942 | | RD1/4PU221J |
| R | 943 | | RS1/8S681J |
| R | 947 | | RS1/10S473J |
| R | 948 | | RS1/10S103J |
| R | 949 | | RS1/10S473J |
| R | 950 | | RS1/10S224J |
| R | 951 | | RS1/10S103J |
| R | 954 | | RS1/10S103J |
| R | 955 | | RS1/10S473J |
| R | 956 | | RS1/10S473J |
| R | 957 | | RS1/10S103J |
| R | 958 | | RS1/10S472J |
| R | 961 | | RS1/8S153J |
| R | 962 | | RS1/10S472J |
| R | 963 | | RS1/10S472J |
| R | 964 | | RS1/10S102J |
| R | 971 | | RS1/10S822J |
| R | 972 | | RS1/10S102J |
| R | 974 | | RS1/10S471J |
| R | 981 | | RS1/10S472J |
| R | 982 | | RD1/4PU102J |
| R | 983 | | RS1/10S472J |
| R | 984 | | RD1/4PU102J |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| R 991 | | RD1/4PU221J |
| R 992 | | RS1/10S221J |
| R 993 | | RS1/10S222J |
| R 994 | | RS1/10S472J |
| R 995 | | RS1/10S681J |
| R 996 | | RA3C102J |
| CAPACITORS | | |
| C 101 | | CKSQYB104K50 |
| C 102 | | CKSQYB104K50 |
| C 103 | | CKSQYB102K50 |
| C 104 | | CEJA100M16 |
| C 105 | | CEJA1R0M50 |
| C 106 | | CEJA1R0M50 |
| C 107 | | CEJA100M16 |
| C 108 | | CEJA1R0M50 |
| C 109 | | CEJA1R0M50 |
| C 151 | | CKSQYB223K25 |
| C 152 | | CKSQYB223K25 |
| C 153 | | CEJA1R0M50 |
| C 154 | | CEJA1R0M50 |
| C 171 | | CKSYB224K16 |
| C 172 | | CKSYB224K16 |
| C 173 | | CKSYB224K16 |
| C 174 | | CKSYB224K16 |
| C 175 | | CEJA330M16 |
| C 176 | | CEJA1R0M50 |
| C 177 | | CCH1125 |
| C 178 | | CKSQYB104K50 |
| C 179 | | CEHAR100M16 |
| C 180 | | CEHAS1R0M50 |
| C 181 | | CKSQYB102K50 |
| C 201 | | CEJA1R0M50 |
| C 202 | | CEJA1R0M50 |
| C 203 | | CEJA1R0M50 |
| C 204 | | CEJA1R0M50 |
| C 205 | | CEJA1R0M50 |
| C 206 | | CEJA1R0M50 |
| C 207 | | CEJA470M10 |
| C 208 | | CKSQYB104K50 |
| C 209 | | CEJA100M16 |
| C 211 | | CKSQYB822K50 |
| C 212 | | CKSQYB822K50 |
| C 213 | | CEJA1R0M50 |
| C 214 | | CEJA1R0M50 |
| C 215 | | CKSQYB152K50 |
| C 216 | | CKSQYB152K50 |
| C 217 | | CEJANP100M10 |
| C 218 | | CEJANP100M10 |
| C 219 | | CKSQYB183K25 |
| C 220 | | CKSQYB183K25 |
| C 221 | | CEJANP100M10 |
| C 222 | | CEJANP100M10 |
| C 223 | | CKSYB334K16 |
| C 224 | | CKSYB334K16 |
| C 225 | | CKSQYB103K50 |
| C 226 | | CKSQYB103K50 |
| C 227 | | CKSYB105K16 |
| C 228 | | CKSYB105K16 |
| C 229 | | CKSQYB823K25 |
| C 230 | | CKSQYB823K25 |
| C 231 | | CKSQYB333K25 |
| C 232 | | CKSQYB333K25 |
| C 233 | | CKSQYB104K50 |
| C 234 | | CKSQYB473K16 |
| C 235 | | CKSQYB562K50 |
| C 236 | | CKSQYB104K50 |
| C 237 | | CKSQYB473K16 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| C 238 | | CCSQCH470J50 |
| C 353 | | CEJA100M16 |
| C 354 | | CEJA100M16 |
| C 373 | | CEJA4R7M35 |
| C 374 | | CEJA4R7M35 |
| C 401 | | CKSQYB103K50 |
| C 402 | | CKSQYB223K25 |
| C 403 | | CKSQYB103K50 |
| C 405 | | CEJA220M10 |
| C 406 | | CKSQYB103K50 |
| C 407 | | CKSQYB471K50 |
| C 408 | | CCSQCH101J50 |
| C 409 | | CKSQYB223K25 |
| C 410 | | CKSQYB103K50 |
| C 411 | | CKSQYB472K50 |
| C 412 | | CKSQYB103K50 |
| C 413 | | CKSQYB103K50 |
| C 414 | | CEJA220M10 |
| C 415 | | CKSQYB103K50 |
| C 416 | | CEJA220M6R3 |
| C 417 | | CKSQYB103K50 |
| C 418 | | CKSQYB103K50 |
| C 419 | 4.7µF/16V | CCH1250 |
| C 420 | | CKSQYB103K50 |
| C 421 | | CKLSR473K16 |
| C 422 | | CKSQYB332K50 |
| C 423 | | CKSQYB103K50 |
| C 424 | 4.7µF/16V | CCH1250 |
| C 425 | | CKSQYB103K50 |
| C 427 | | CEJAR47M50 |
| C 428 | | CKSQYB103K50 |
| C 429 | | CCSQCH150J50 |
| C 430 | | CCSQCH150J50 |
| C 431 | | CKSQYB103K50 |
| C 432 | | CKSQYB103K50 |
| C 433 | | CCSQCH101J50 |
| C 434 | | CKSQYB103K50 |
| C 435 | | CKSQYB223K25 |
| C 436 | | CKSQYB103K50 |
| C 437 | | CKSQYB102K50 |
| C 438 | | CEJA220M6R3 |
| C 440 | | CKSQYB223K25 |
| C 501 | | CKSQYB104K50 |
| C 502 | | CKSQYB223K25 |
| C 503 | | CKSQYB223K25 |
| C 504 | | CCSQCH101J50 |
| C 505 | | CEJA100M16 |
| C 506 | | CKSQYB104K50 |
| C 507 | | CKSQYB222K50 |
| C 508 | | CKSQYB104K50 |
| C 509 | | CKSYB105K16 |
| C 510 | | CKSQYB104K50 |
| C 511 | | CKSQYB472K50 |
| C 512 | | CKSQYB103K50 |
| C 513 | | CKSQYB102K50 |
| C 514 | | CCSQCH270J50 |
| C 515 | | CCSQCH270J50 |
| C 517 | | CCSQCH101J50 |
| C 601 | | CCSQCH180J50 |
| C 602 | | CCSQCH180J50 |
| C 603 | | CEJA101M10 |
| C 604 | | CCSQCH101J50 |
| C 606 | | CCSQCH101J50 |
| C 607 | | CKSQYB102K50 |
| C 608 | | CCSQCH101J50 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| C 610 | | CCSQCH101J50 |
| C 653 | | CKSQYB103K50 |
| C 654 | | CKSQYB103K50 |
| C 655 | | CKSQYB103K50 |
| C 801 | | CKSQYB103K50 |
| C 802 | 220µF/10V | CCH1014 |
| C 803 | | CCSQCH101J50 |
| C 804 | | CCSQCH101J50 |
| C 805 | 220µF/10V | CCH1014 |
| C 806 | | CCSQCH101J50 |
| C 912 | | CKSQYB472K50 |
| C 913 | | CEJA470M10 |
| C 941 | | CEAS331M10 |
| C 942 | | CKSQYB103K50 |
| C 943 | | CEJA101M16 |
| C 951 | | CKSYF105Z25 |
| C 971 | 0.22F/5.5V | CCL1037 |
| C 972 | | CEJA2R2M50 |
| C 991 | | CKSQYB473K16 |
| C 992 | | CKSQYB102K50 |
| C 993 | | CEJA101M10 |

| Keyboard Unit |
|---|
| Consists of |
| Keyboard PCB |
| Switch PCB |

CF Unit Number : CWM5062
Unit Name : Keyboard Unit(DEH-P835R/EW)

MISCELLANEOUS

| | | |
|---|---|---|
| IC 1901 | IC | RS-140 |
| IC 1902 | IC | PD6199A |
| IC 1903 | IC | PD6200A |
| IC 1904 | IC | SC14SU69F |
| Q 1901 | Transistor | 2SC2712 |
| Q 1902 | Transistor | IMH10A |
| Q 1903 | Transistor | DTC143TK |
| Q 1904 | Transistor | IMH10A |
| Q 1905 | Transistor | IMH10A |
| Q 1906 | Transistor | IMH10A |
| Q 1907 | Transistor | IMH10A |
| D 1901 | Diode | MA153 |
| D 1902 | Diode | MA153 |
| D 1903 | LED | CL155DPGD |
| D 1904 | LED | CL155DPGD |
| D 1905 | LED | CL170DCD |
| D 1906 | LED | CL170DCD |
| D 1907 | LED | CL170PGCD |
| D 1909 | LED | CL170DCD |
| D 1910 | LED | CL170DCD |
| D 1911 | LED | CL170DCD |
| D 1912 | LED | CL170DCD |
| D 1913 | LED | CL170DCD |
| D 1914 | LED | CL170DCD |
| D 1915 | LED | CL170DCD |
| D 1916 | LED | CL170DCD |
| D 1917 | LED | CL170DCD |
| D 1918 | LED | CL170DCD |
| D 1919 | LED | CL170DCD |
| L 1901 | Inductor | LCTB2R2K2125 |
| L 1902 | Inductor | LCTB2R2K2125 |
| X 1901 | Resonator 5.0000MHz | CSS1405 |
| S 1901 | Switch | CSG1043 |
| S 1902 | Switch | CSG1099 |
| S 1903 | Switch | CSG1085 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|
| S 1904 | Switch | CSG1099 |
| S 1905 | Switch | CSG1099 |
| S 1906 | Switch | CSG1043 |
| S 1908 | Switch | CSG1099 |
| S 1910 | Switch | CSG1085 |
| S 1911 | Switch | CSG1099 |
| S 1912 | Switch | CSG1078 |
| S 1913 | Switch | CSG1084 |
| S 1914 | Switch | CSG1085 |
| S 1915 | Switch | CSG1084 |
| S 1917 | Switch | CSG1085 |
| S 1918 | Switch | CSG1084 |
| S 1919 | Switch | CSG1085 |
| S 1920 | Switch | CSG1084 |
| S 1921 | Switch | CSG1085 |
| S 1922 | Switch | CSG1085 |
| S 1923 | Switch | CSG1085 |
| S 1924 | Switch | CSG1084 |
| S 1930 | Switch | CSN1027 |
| LCD1901 | LCD | CAW1403 |
| | EL | CEL1493 |

RESISTORS

| | | |
|---|---|---|
| R 1901 | | RS1/8S222J |
| R 1902 | | RS1/8S222J |
| R 1903 | | RS1/10S272J |
| R 1904 | | RS1/10S121J |
| R 1905 | | RS1/10S102J |
| R 1906 | | RS1/10S103J |
| R 1907 | | RS1/10S470J |
| R 1908 | | RS1/10S470J |
| R 1909 | | RS1/10S470J |
| R 1910 | | RS1/10S470J |
| R 1911 | | RS1/4S561J |
| R 1912 | | RS1/4S561J |
| R 1913 | | RS1/10S151J |
| R 1915 | | RS1/8S271J |
| R 1917 | | RS1/8S271J |
| R 1919 | | RS1/10S151J |
| R 1921 | | RS1/10S151J |
| R 1923 | | RS1/10S151J |
| R 1925 | | RS1/10S151J |
| R 1927 | | RS1/8S271J |
| R 1929 | | RS1/8S151J |
| R 1931 | | RS1/10S102J |
| R 1936 | | RS1/10S103J |
| R 1941 | | RS1/10S470J |
| R 1942 | | RS1/10S470J |

CAPACITORS

| | | |
|---|---|---|
| C 1901 | | CSZS100M6R3 |
| C 1902 | | CSZS100M6R3 |
| C 1903 | | CKSQYB103K50 |
| C 1904 | | CKSQYB103K50 |
| C 1905 | | CKSQYB103K50 |
| C 1906 | | CKSQYB103K50 |
| C 1907 | | CKSQYB103K50 |
| C 1908 | | CKSQYB103K50 |
| C 1909 | | CKSQYB103K50 |
| C 1910 | | CKSQYB103K50 |
| C 1911 | | CKSQYB103K50 |
| C 1912 | | CCSQCH220J50 |
| C 1913 | | CCSQCH220J50 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|

Keyboard Unit
Consists of
Keyboard PCB
Switch PCB

**C F** Unit Number : CWM5416
Unit Name : Keyboard Unit(DEH-P735R/EW)

MISCELLANEOUS

| | | | |
|---|---|---|---|
| IC | 1901 | HIC | RS-140 |
| IC | 1902 | IC | PD6199A |
| Q | 1901 | Transistor | 2SC2712 |
| Q | 1902 | Transistor | IMH10A |
| Q | 1903 | Transistor | DTC143TK |
| Q | 1904 | Transistor | IMH10A |
| Q | 1905 | Transistor | IMH10A |
| Q | 1906 | Transistor | IMH10A |
| Q | 1907 | Transistor | IMH10A |
| D | 1901 | Diode | MA153 |
| D | 1902 | Diode | MA153 |
| D | 1903 | LED | CL155DPGD |
| D | 1904 | LED | CL155DPGD |
| D | 1905 | LED | CL170DCD |
| D | 1906 | LED | CL170DCD |
| D | 1907 | LED | CL170PGCD |
| D | 1909 | LED | CL170DCD |
| D | 1910 | LED | CL170DCD |
| D | 1911 | LED | CL170DCD |
| D | 1912 | LED | CL170DCD |
| D | 1913 | LED | CL170DCD |
| D | 1914 | LED | CL170DCD |
| D | 1915 | LED | CL170DCD |
| D | 1916 | LED | CL170DCD |
| D | 1917 | LED | CL170DCD |
| D | 1918 | LED | CL170DCD |
| D | 1919 | LED | CL170DCD |
| L | 1901 | Inductor | LCTB2R2K2125 |
| X | 1901 | Resonator 5.0000MHz | CSS1405 |
| S | 1901 | Switch | CSG1043 |
| S | 1902 | Switch | CSG1099 |
| S | 1903 | Switch | CSG1085 |
| S | 1904 | Switch | CSG1099 |
| S | 1905 | Switch | CSG1099 |
| S | 1906 | Switch | CSG1043 |
| S | 1908 | Switch | CSG1099 |
| S | 1910 | Switch | CSG1085 |
| S | 1911 | Switch | CSG1099 |
| S | 1912 | Switch | CSG1078 |
| S | 1913 | Switch | CSG1084 |
| S | 1914 | Switch | CSG1085 |
| S | 1915 | Switch | CSG1084 |
| S | 1917 | Switch | CSG1085 |
| S | 1918 | Switch | CSG1084 |
| S | 1919 | Switch | CSG1085 |
| S | 1920 | Switch | CSG1084 |
| S | 1921 | Switch | CSG1085 |
| S | 1922 | Switch | CSG1085 |
| S | 1923 | Switch | CSG1085 |
| S | 1924 | Switch | CSG1084 |
| S | 1930 | Switch | CSN1027 |
| LCD | 1901 | LCD | CAW1404 |
| | | EL | CEL1493 |

| =====Circuit Symbol & No. | ===Part Name | Part No. |
|---|---|---|

RESISTORS

| | | | |
|---|---|---|---|
| R | 1901 | | RS1/8S222J |
| R | 1902 | | RS1/8S222J |
| R | 1903 | | RS1/10S272J |
| R | 1904 | | RS1/10S121J |
| R | 1905 | | RS1/8S102J |
| R | 1906 | | RS1/10S103J |
| R | 1907 | | RS1/10S470J |
| R | 1908 | | RS1/10S470J |
| R | 1909 | | RS1/10S470J |
| R | 1910 | | RS1/10S470J |
| R | 1911 | | RS1/4S561J |
| R | 1912 | | RS1/4S561J |
| R | 1913 | | RS1/10S151J |
| R | 1915 | | RS1/8S271J |
| R | 1917 | | RS1/8S271J |
| R | 1919 | | RS1/10S151J |
| R | 1921 | | RS1/10S151J |
| R | 1923 | | RS1/10S151J |
| R | 1925 | | RS1/10S151J |
| R | 1927 | | RS1/8S271J |
| R | 1929 | | RS1/8S151J |
| R | 1936 | | RS1/10S103J |
| R | 1940 | | RS1/10S0R0J |
| R | 1941 | | RS1/10S470J |
| R | 1942 | | RS1/10S470J |

CAPACITORS

| | | | |
|---|---|---|---|
| C | 1901 | | CSZS100M6R3 |
| C | 1902 | | CSZS100M6R3 |
| C | 1903 | | CKSQYB103K50 |
| C | 1904 | | CKSQYB103K50 |
| C | 1905 | | CKSQYB103K50 |
| C | 1906 | | CKSQYB103K50 |
| C | 1912 | | CCSQCH220J50 |
| C | 1913 | | CCSQCH220J50 |

**D** Unit Number :
Unit Name : Detector PCB

| | | | |
|---|---|---|---|
| Q | 1 | Photo-transistor | CPT-230S-X |
| Q | 2 | Photo-transistor | CPT-230S-X |

Miscellaneous Parts List

| | | | |
|---|---|---|---|
| | | Pickup Unit(SERVICE) | CXX1230 |
| M | 1 | Motor Unit(SPINDLE) | CXA8912 |
| M | 2 | CRG Motor Unit(CARRIAGE) | CXA8986 |
| M | 3 | Load Motor Unit(LOADING) | CXA8702 |

# 6. ADJUSTMENT

## 6.1 TUNER ADJUSTMENT

### ● Connection Diagram

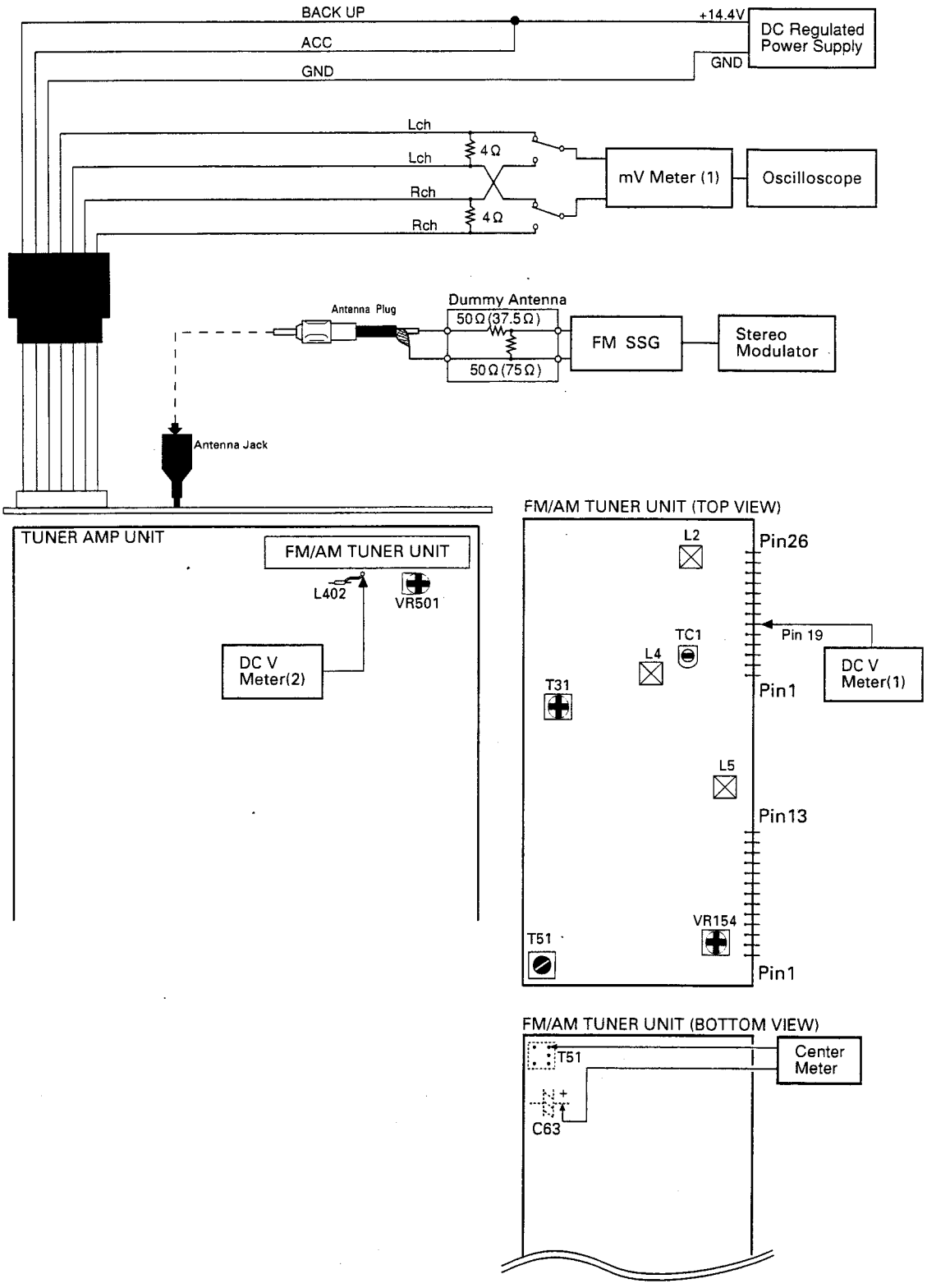



Fig. 22

## FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)
S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)
S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

| | No. | FM SSG | | Displayed | Adjustment | Adjustment Method |
|---|---|---|---|---|---|---|
| | | Frequency(MHz) | Level(dBf) | Frequency(MHz) | Point | (Switch Position) |
| TUN Volt | 1 | ••••• | ••••• | 108.0 | L5 | DC V Meter(1) : 6V |
| IF | 1 | 98.1 M | 60 | 98.1 | T51 | Center Meter : 0 |
| ANT Coil | 1 | 98.1 M | 5 | 98.1 | L2 | mV Meter(1) : Maximum |
| RF Coil | 1 | 98.1 M | 5 | 98.1 | L4 | mV Meter(1) : Maximum |
| Image | 1 | 129.3 M | 60—80 | 107.9 | TC1 | mV Meter(1) : Minimum |
| IFT | 1 | 98.1 M | 5 | 98.1 | T31 | mV Meter(1) : Maximum (STEREO MODE) |
| ARC | 1 | 98.1 S1 | 39 | 98.1 | VR154 | mV Meter(1) : Separation 5dB (STEREO MODE) |

## RDS SL ADJUSTMENT

| | No. | FM SSG | | Displayed | Adjustment | Adjustment Method |
|---|---|---|---|---|---|---|
| | | Frequency(MHz) | Level(dBf) | Frequency(MHz) | Point | (Switch Position) |
| | 1 | 104.0 S2 | 35 | 104.0 | VR701 | DC V Meter(2) : 1.75V±0.05V |

## 6.2 CHECKING THE GRATING

### ● Checking the Grating After Changing the Service Pickup Unit

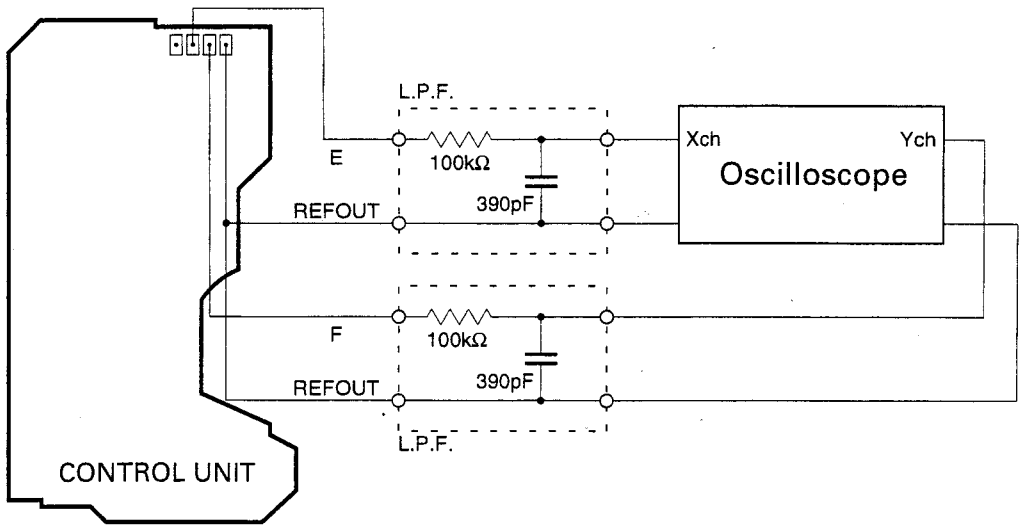
**·Note :**
Unlike previous CD mechanism modules the grating angle of the Pickup unit cannot be adjusted after the Pickup unit is changed. The Pickup unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted Pickup unit for the CD mechanism module. Changing the Pickup unit is thus best considered as a last resort. However, if the Pickup unit must be changed, the grating should be checked using the procedure below.

**·Purpose :**
To check that the grating is within an acceptable range.

**·Symptoms of Mal-adjustment :**
If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or track searching taking a long time, may appear.

**·Method :**

| | |
|---|---|
| ·Measuring Equipment | ·Oscilloscope, Two L.P.F. |
| ·Measuring Points | ·E, F, REFOUT |
| ·Disc | ·ABEX TCD-784 |
| ·Mode | ·TEST MODE |




**·Checking Procedure**

1. In test mode, load the disc and switch the 5V regulator on.
2. Using the → and ← buttons, move the Pickup unit to the innermost track.
3. Press key **3** to close focus, the display should read "91". Press key **2** to implement the tracking balance adjustment the display should now read "81". Press key **3** 4 times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75° . Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the Pickup unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

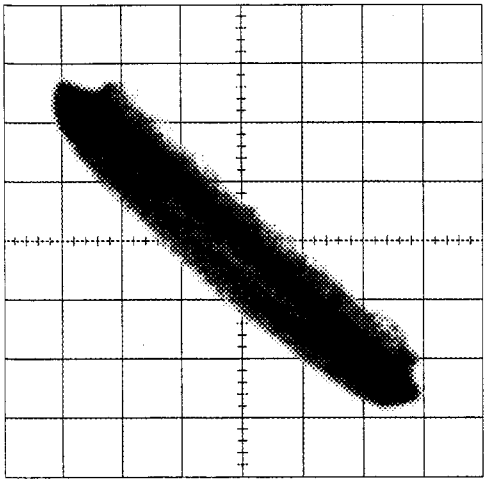
**·Note**
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" ( the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

**·Hint**
Reloading the disc changes the clamp position and may decrease the "wobble".

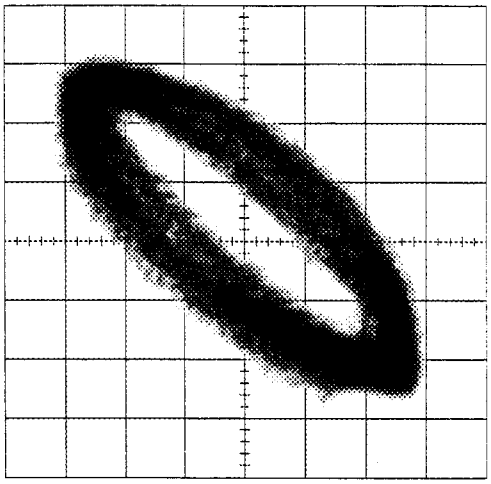
**Grating waveform**

Ech → Xch 20mV/div, AC
Fch → Ych 20mV/div, AC

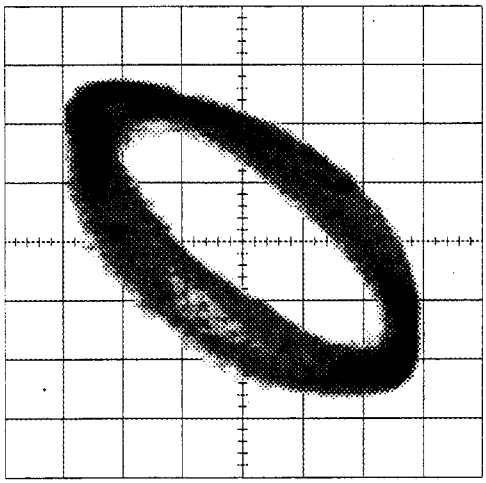
0°



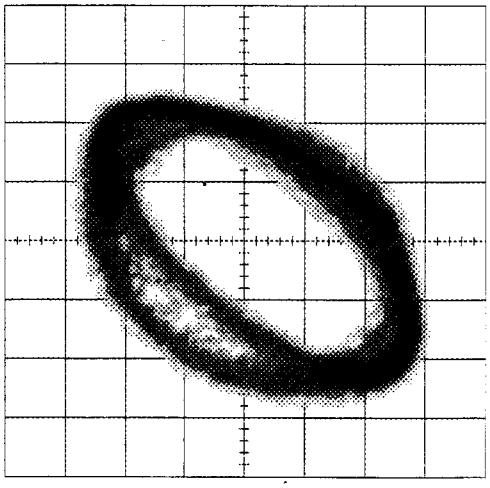
30°



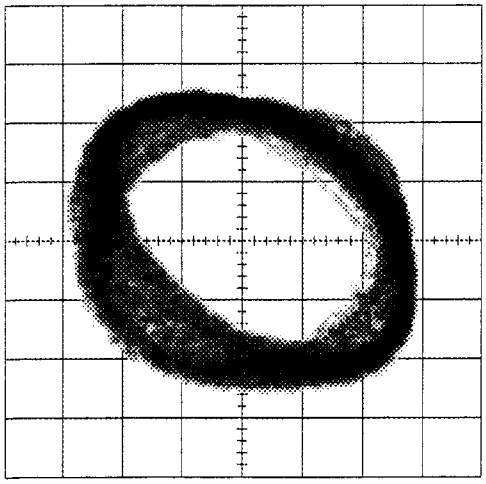
45°



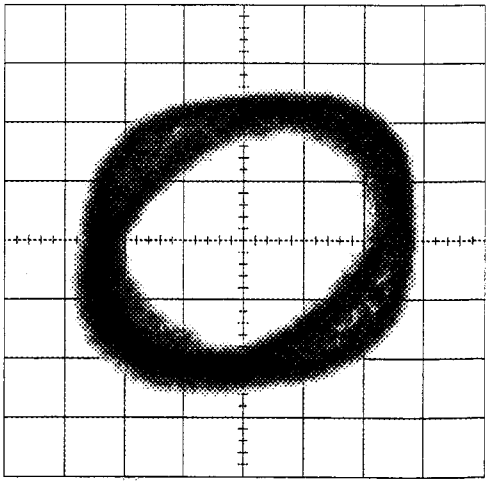
60°



75°



90°

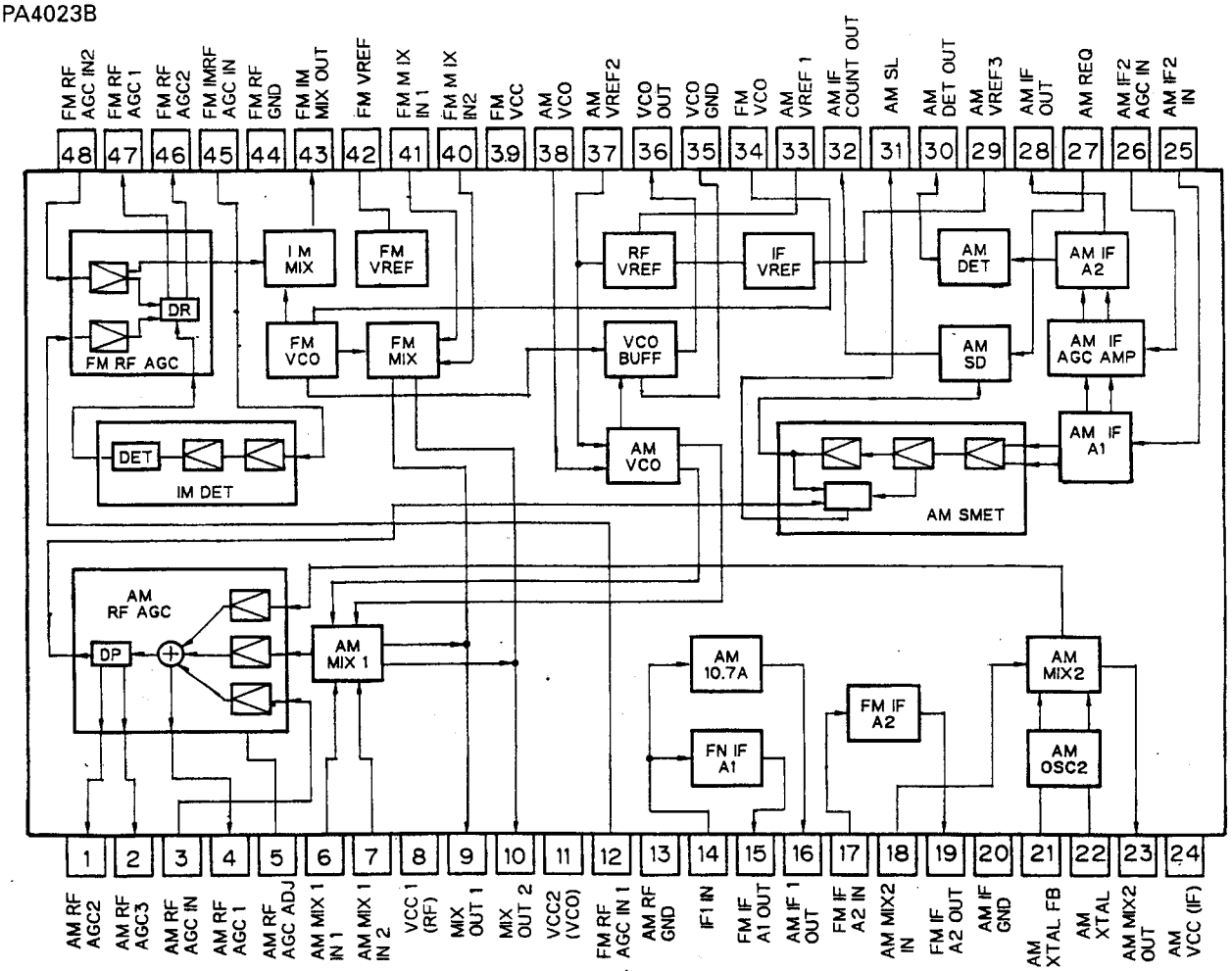


# 7. GENERAL INFORMATION

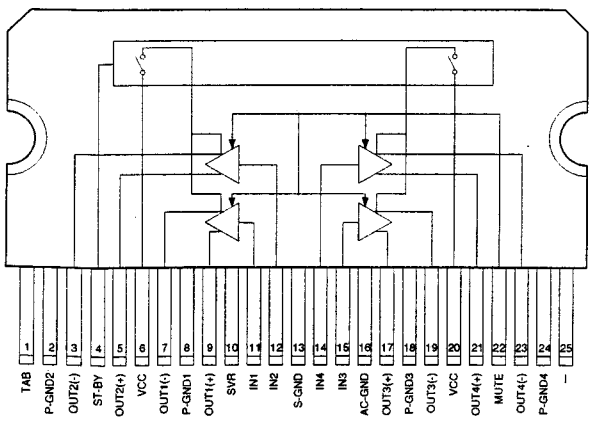
## 7.1 PARTS

### 7.1.1 IC

PA4023B




TDA7386

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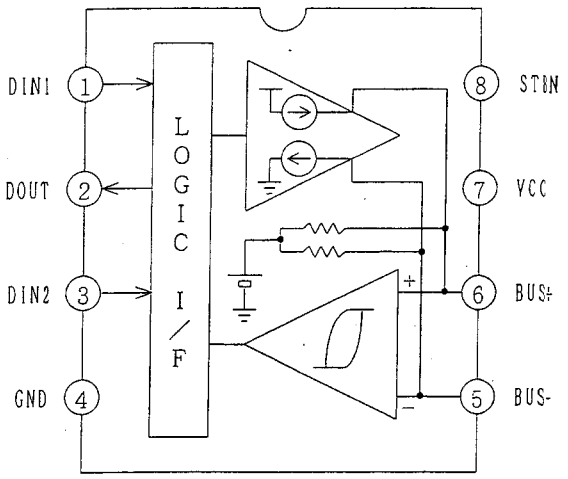
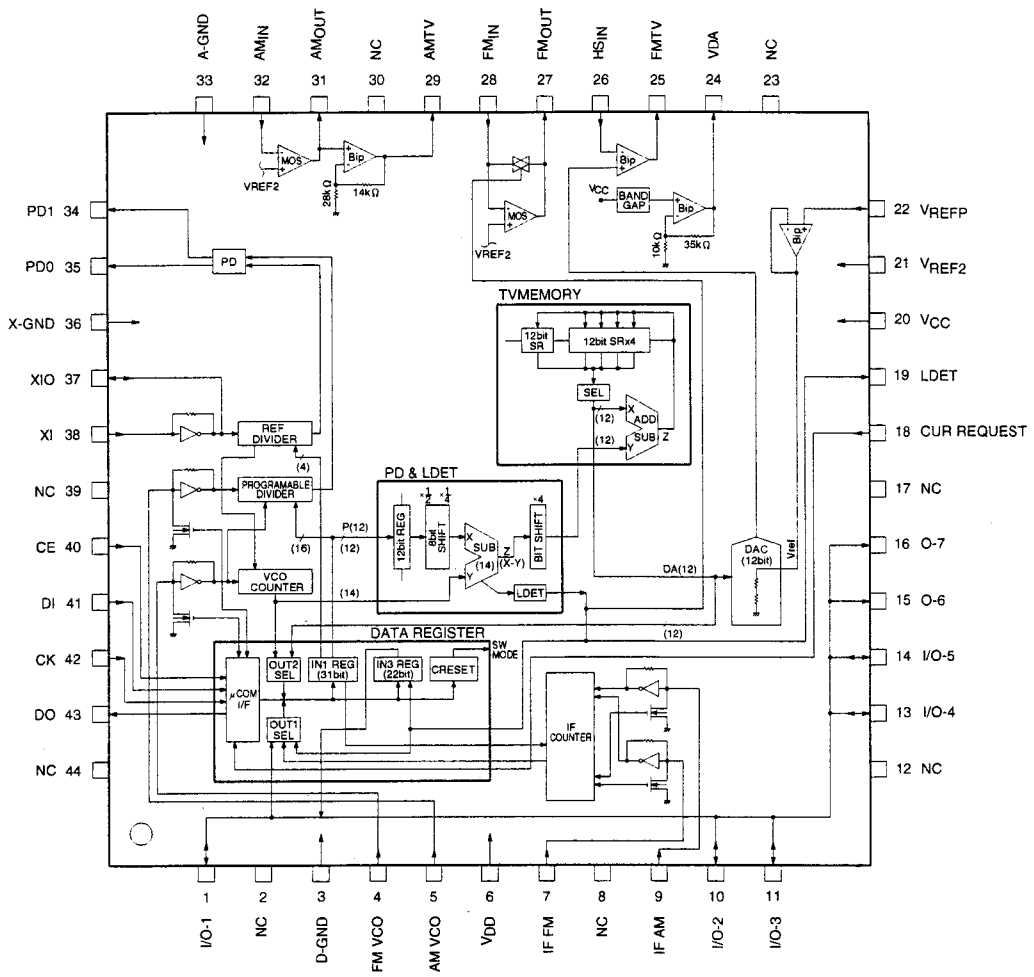
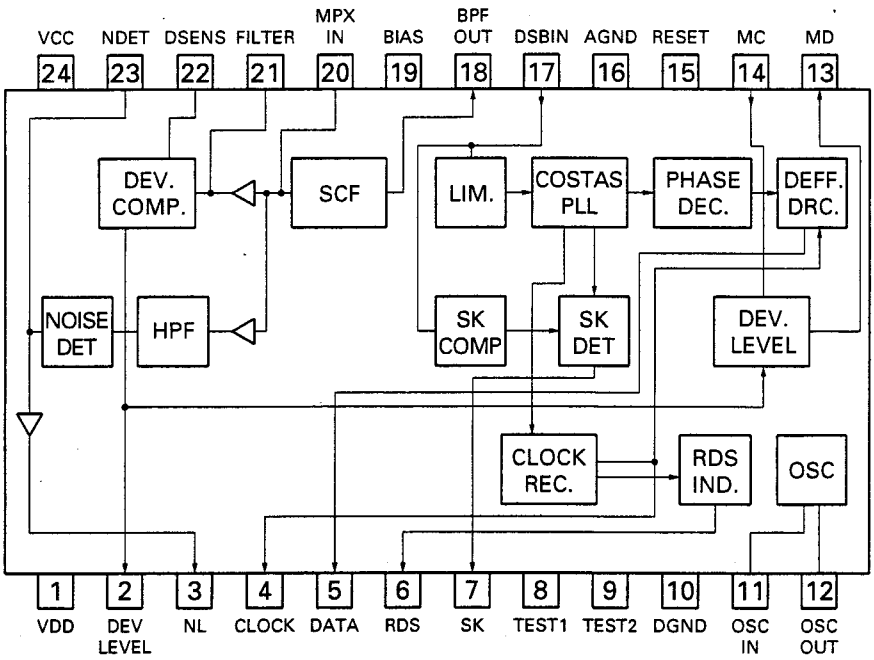


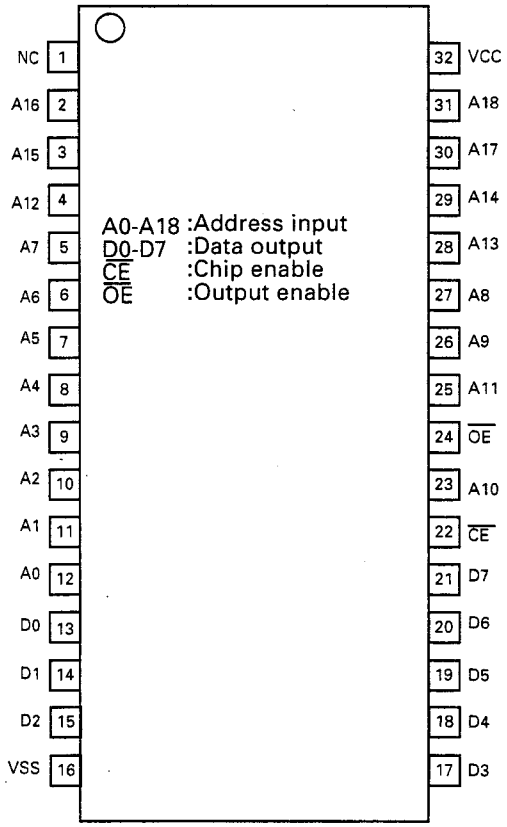
PM2005B




*PMW001B



*PD8027A




*IC's marked by* are MOS type.*
*Be careful in handling them because they are very liable to be damaged by electrostatic induction.*

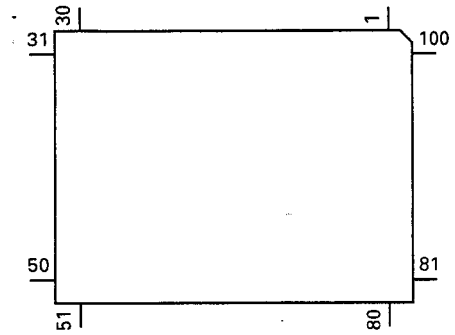
## ● Pin Functions (PD4771A)

| Pin No. | Pin Name | I/O | Function and Operation |
|---|---|---|---|
| 1 | $\overline{SWVDD}$ | O | Keyboard unit power supply control output |
| 2 | $\overline{DSENS}$ | I | Grille detach sense input |
| 3 | $\overline{CSENS}$ | I | Flap close sense input |
| 4 | $\overline{ISENS}$ | I | Illumination power supply sense input |
| 5 | TESTIN | I | Test program mode input |
| 6 | $\overline{DRST}$ | O | RDS reset output |
| 7 | ERROR | O | RDS disapprove of error correction output |
| 8 | $\overline{SK}$ | I | RDS SK signal input |
| 9 | RECIVE | I | During RDS data reception output |
| 10 | L/S | O | RDS fuzzy control output |
| 11 | $\overline{RESET}$ | I | Reset input |
| 12 | XT2 | | Not used |
| 13 | XT1 | | Not used |
| 14 | VSS | | GND |
| 15 | X2 | | Crystal oscillator connection pin |
| 16 | X1 | | Crystal oscillator connection pin |
| 17 | REGC | | Connect to VDD |
| 18 | REGOFF | | Connect to VDD |
| 19 | VDD | | Power supply |
| 20 | ILMPW | O | Illumination power supply control output |
| 21 | SYSPWR | O | System power control |
| 22 | $\overline{ADPW}$ | O | A/D converter power |
| 23 | LCDPW | O | LCD back light power supply control output |
| 24 | IPPW | O | Power supply control output for IP BUS interface IC |
| 25 | ASENBO | O | Slave power supply control output |
| 26 | AM | O | AM power output |
| 27 | TELIN | I | Telephone mute input |

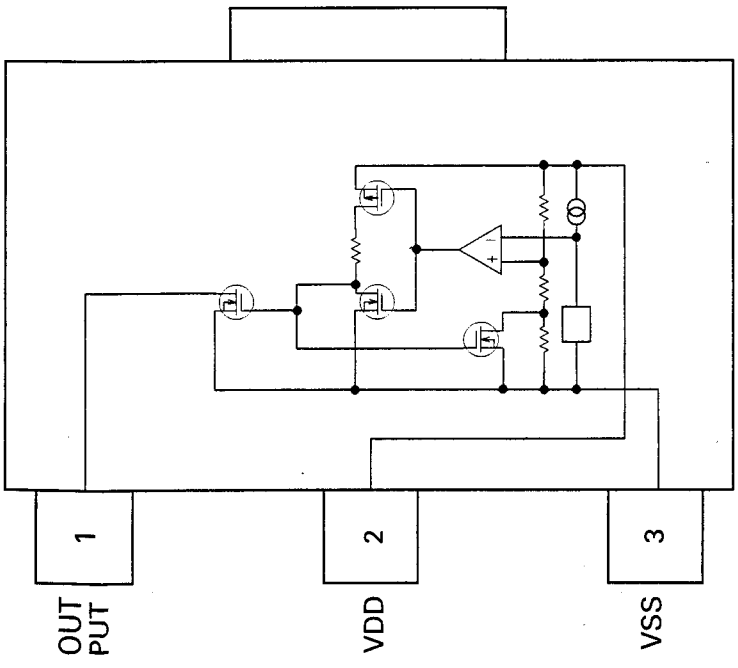
| Pin No. | Pin Name | I/O | Function and Operation |
|---|---|---|---|
| 28 | MUTE | O | Mute output |
| 29 | DIM | O | Dimmer select output |
| 30 | SPMPX0 | O | MPX output for spectrum analyzer |
| 31 | SPMPX1 | O | MPX output for spectrum analyzer |
| 32 | SPMPX2 | O | MPX output for spectrum analyzer |
| 33 | VCK | O | Clock output for electronic volume |
| 34 | VST | O | Strobe pulse output for electronic volume |
| 35 | VDT | O | Data output for electronic volume |
| 36 | $\overline{\text{TMUTE}}$ | O | Tuner mute output |
| 37 | SEL1 | I | Destination sense input |
| 38 | SD | I | SD input |
| 39 | $\overline{\text{ST}}$ | I | FM stereo input |
| 40 | VSS | | GND |
| 41 | VDD | | Power supply |
| 42 | $\overline{\text{MDSENCE}}$ | I | Modulation detect input |
| 43 | $\overline{\text{MUTCNT}}$ | I | NF mute control input |
| 44 | $\overline{\text{RDSLK}}$ | I | RDS LK signal input |
| 45 | $\overline{\text{CURRQ}}$ | O | Tuner voltage FIX output |
| 46 | RDT | I | RDS demodulation data input |
| 47 | DRELAY | O | External relay output |
| 48 | DRSENS | I | Door open/close sense input |
| 49 | DRSYS | O | Door system select output |
| 50 | $\overline{\text{DLED}}$ | O | Alarm LED output |
| 51 | DLSENS | I | Door lock sense input |
| 52 | STCUT | O | Starter cut off output |
| 53 | $\overline{\text{MOSENS}}$ | I | Motion/window damage sensor input |
| 54 | CD5VON | O | CD +5V power supply control output |
| 55 | CONT | O | CD Servo driver power supply control |
| 56 | VDCONT | O | CD VD control output |
| 57 | CDMUTE | O | CD mute output |
| 58 | CDEJET | O | CD load motor eject control output |
| 59 | CDLOAD | O | CD LOAD motor loading control output |
| 60 | LOCK | I | CD spindle lock detector input |
| 61 | FOK | I | CD focus OK signal input |
| 62 | PCL | O | Clock adjustment output |
| 63 | MIRR | O | CD MIRR detection signal output terminal |
| 64 | $\overline{\text{CLAMP}}$ | I | CD disc clamp sense input |
| 65 | $\overline{\text{XSCK}}$ | O | CD LSI clock output |
| 66 | XSI | I | CD LSI data input |
| 67 | XSO | O | CD LSI data output |
| 68 | XA0 | O | CD Control signal distinguishing data output |
| 69 | $\overline{\text{XRST}}$ | O | CD LSI reset output |
| 70 | $\overline{\text{XSTB}}$ | O | CD LSI strobe output |
| 71 | $\overline{\text{VSRS}}$ | O | SRS output |
| 72 | VHIOUT | O | High output select output |
| 73 | TEST | I | Test terminal |
| 74 | SL | I | Signal level input from tuner |
| 75 | LEVEL | I | Level input for spectrum analyzer |
| 76 | CL | I | Detuning sense input |
| 77 | NL | I | RDS noise level input |
| 78 | EJTSNS | I | Disc EJECT position detect |
| 79 | DSCSNS | I | Disc detect |
| 80 | VDSENS | I | CD VD short detection input |
| 81 | TEMP | I | Temperature detect input |
| 82,83 | VDD | | Positive power supply terminal for logic circuit |
| 84 | GND | | GND |
| 85 | RX | I | IP BUS data input |
| 86 | TX | O | IP BUS data output |

| Pin No. | Pin Name | I/O | Function and Operation |
|---|---|---|---|
| 87 | GND | | GND |
| 88 | $\overline{\text{LDET}}$ | I | PLL lock sense input |
| 89 | RCK | I | RDS demodulation clock input |
| 90 | RDS57K | I | 57kHz BP-OUT sense input |
| 91 | SEL0 | I | Destination sense input |
| 92 | $\overline{\text{ASENS}}$ | I | ACC power sense input |
| 93 | $\overline{\text{BSENS}}$ | I | Back up power sense input |
| 94 | TUNPDI | I | PLL IC data input |
| 95 | KEYDT | I | Display data input |
| 96 | DPDT | O | Display data output |
| 97 | TUNPCK | O | PLL IC clock |
| 98 | TUNPDO | O | PLL IC data output |
| 99 | TUNPCE | O | PLL IC chip enable |
| 100 | PEE | O | Beep tone output |

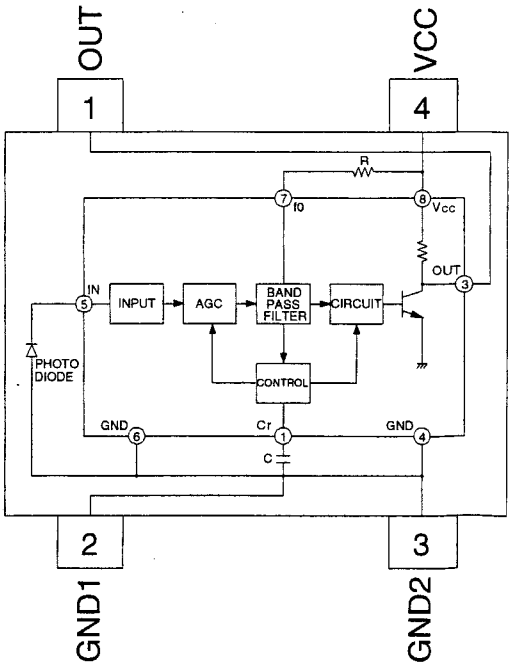
*PD4771A




S-80730ANDT



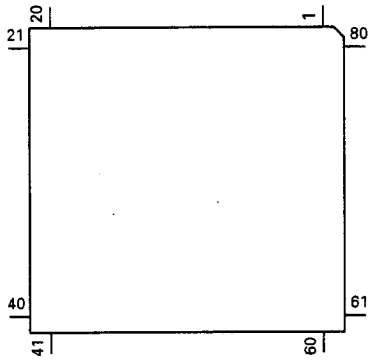

RS-140



## ● Pin Functions (PD6199A)

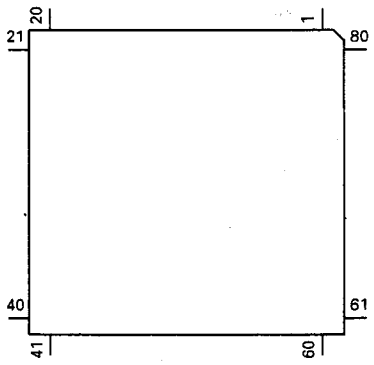
| Pin No. | Pin Name | I/O | Format | Function and Operation |
|---|---|---|---|---|
| 1 | VSS | | | GND |
| 2 | XI | I | | Crystal oscillator connection pin |
| 3 | XO | I | | Crystal oscillator connection pin |
| 4 | $\overline{RST}$ | I | | System reset |
| 5,6 | MOD1,0 | I | | Model select input |
| 7 | LED | O | C | LED control output |
| 8 | SO | O | C | Key data output |
| 9 | SI | I | | Serial data input |
| 10 | REM | I | | Remote control reception |
| 11 | SDRQ | I | | Reception error request input |
| 12 | ILM | O | C | Illumination color select output |
| 13–16 | KD4–KD1 | I | | Key sense input |
| 17–22 | KST6-1 | O | N | Key strobe output |
| 23 | VCC | | | Power supply terminal |
| 24–73 | SEG49-0 | O | | LCD segment output |
| 74–77 | COM3–0 | O | | LCD common output |
| 78–80 | V3–V1 | | | LCD Power supply terminal |

*PD6199A




| Format | Meaning |
|---|---|
| C | C MOS |
| N | N channel open drain |

*PD6200A




## ● Pin Functions (PD6200A)

| Pin No. | Pin Name | I/O | Function and Operation |
|---|---|---|---|
| 1 | VSS | | GND |
| 2 | XI | I | Crystal oscillator connection pin |
| 3 | XO | I | Crystal oscillator connection pin |
| 4 | $\overline{RST}$ | I | System reset |
| 5,6 | MOD1,0 | I | Model select input |
| 7,8 | NC | | Not used |
| 9 | SI | I | Serial data input |
| 10 | NC | | Not used |
| 11 | RVER | O | Reception error output |
| 12–22 | NC | | Not used |
| 23 | VCC | | Power supply terminal |
| 24–73 | SEG49-0 | O | LCD segment output |
| 74–77 | COM3–0 | O | LCD common output |
| 78–80 | V3–V1 | | LCD Power supply terminal |

## 7.1.2 DISPLAY

● CAW1403(DEH-P835R/EW)

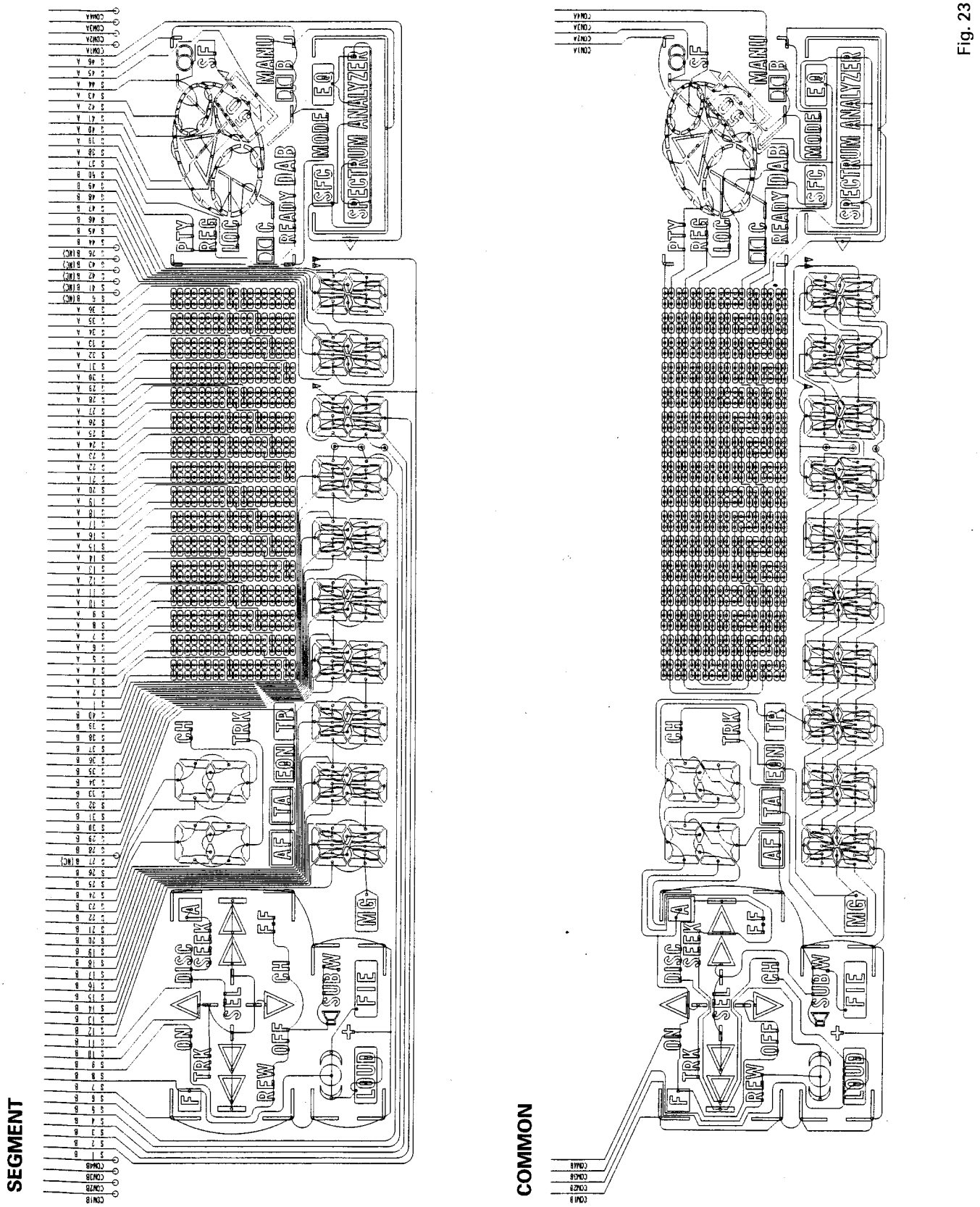



Fig. 23

● CAW1404(DEH-P735R/EW)

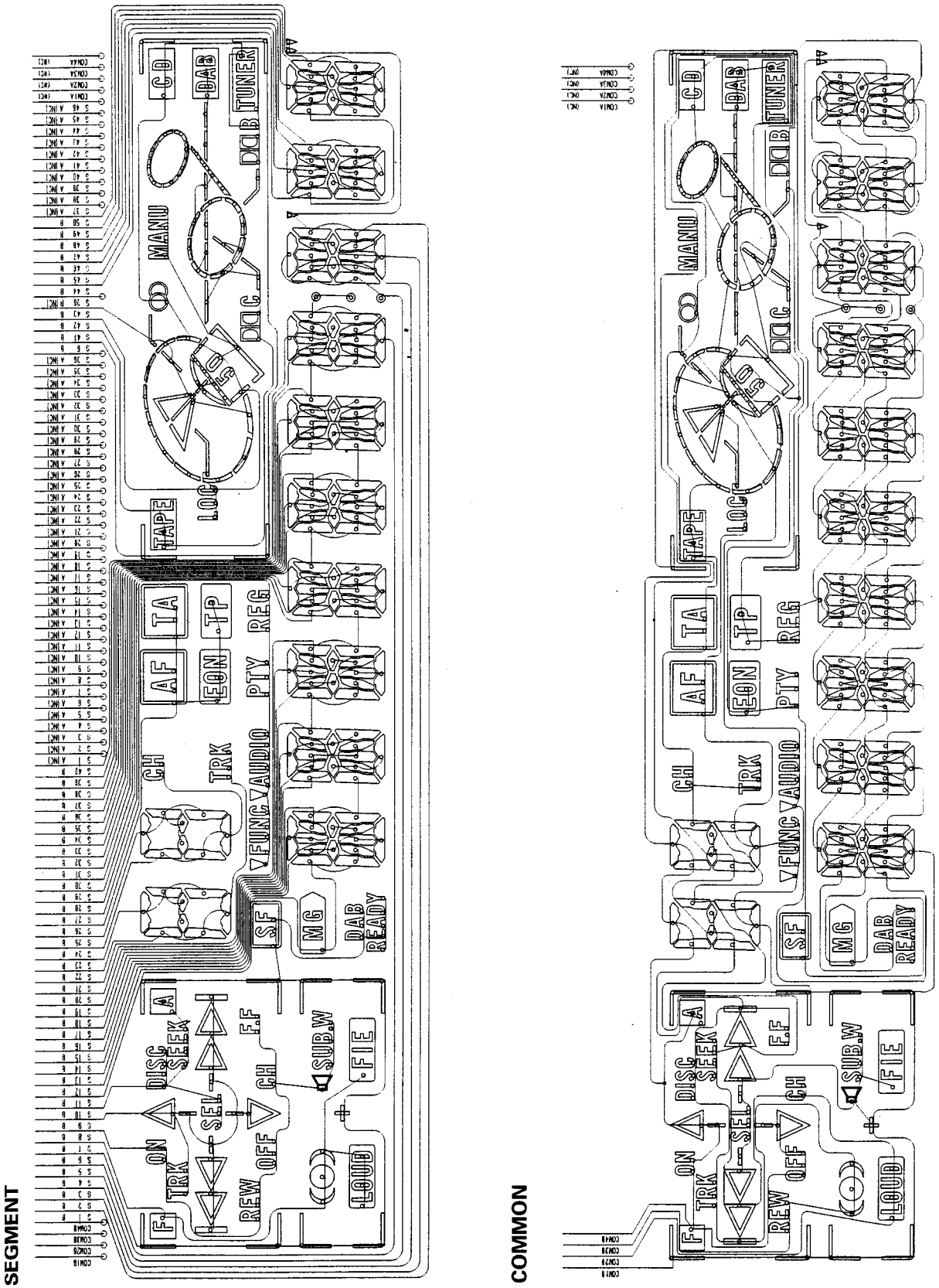



Fig. 24

## 7.2 DIAGNOSIS

### 7.2.1 DISASSEMBLY

**● Removing the Case(Not shown)**

1. Remove the two screws.
2. Insert and turn a flat screwdriver to remove the case.

**● Removing the Detach Grille Assy(Fig.25)**

1. Press the open button, and then pull Detach Grille Assy.

**● Removing the Panel Assy(Fig.25)**

1. Remove the two screws A.
2. Disconnect the two connectors.
3. Disconnect the two stoppers indicated by arrows, and then remove the Panel Assy.

**● Removing the CD Mechanism Module(Fig.25)**

1. Remove the four screws.
2. Disconnect the connector.
3. Remove the CD Mechanism Module.

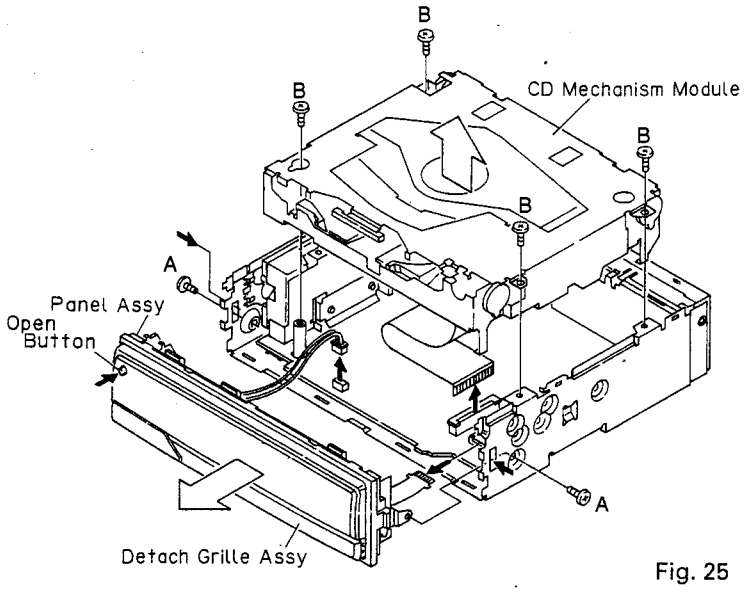



Fig. 25

**● Removing the Chassis Unit(Fig.26)**

1. Remove the two screws C, screw D, two screws E ,screw F, and screw G.
2. Stretch the four claws, and then remove the Chassis Unit.

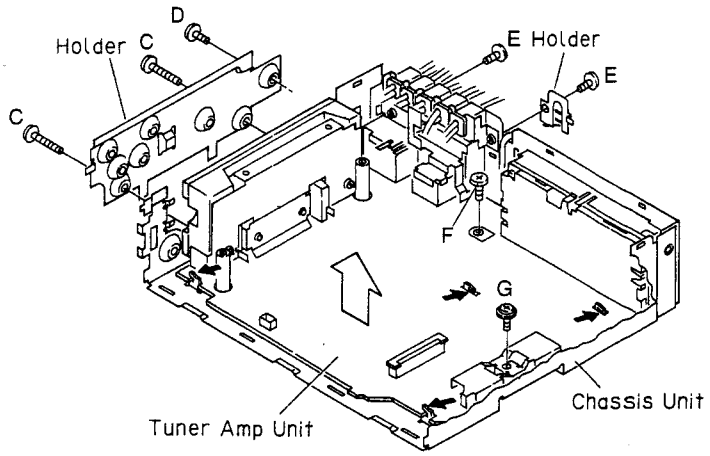



Fig. 26

## 7.2.2 TEST MODE

### ● CD Test Mode

1)Precautions

· This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.
If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.
Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.
Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.
If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

· Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.

· Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.

· Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.

· Test mode starting procedure
Switch ACC, back-up ON while pressing the **4** and **6** keys together.

· Test mode cancellation
Switch ACC, back-up OFF.

· Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
*During PLAY, even if the eject button is pressed,the disc will not be ejected and the unit will remain in the PLAY mode.
*The unit will not load a disc.
When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

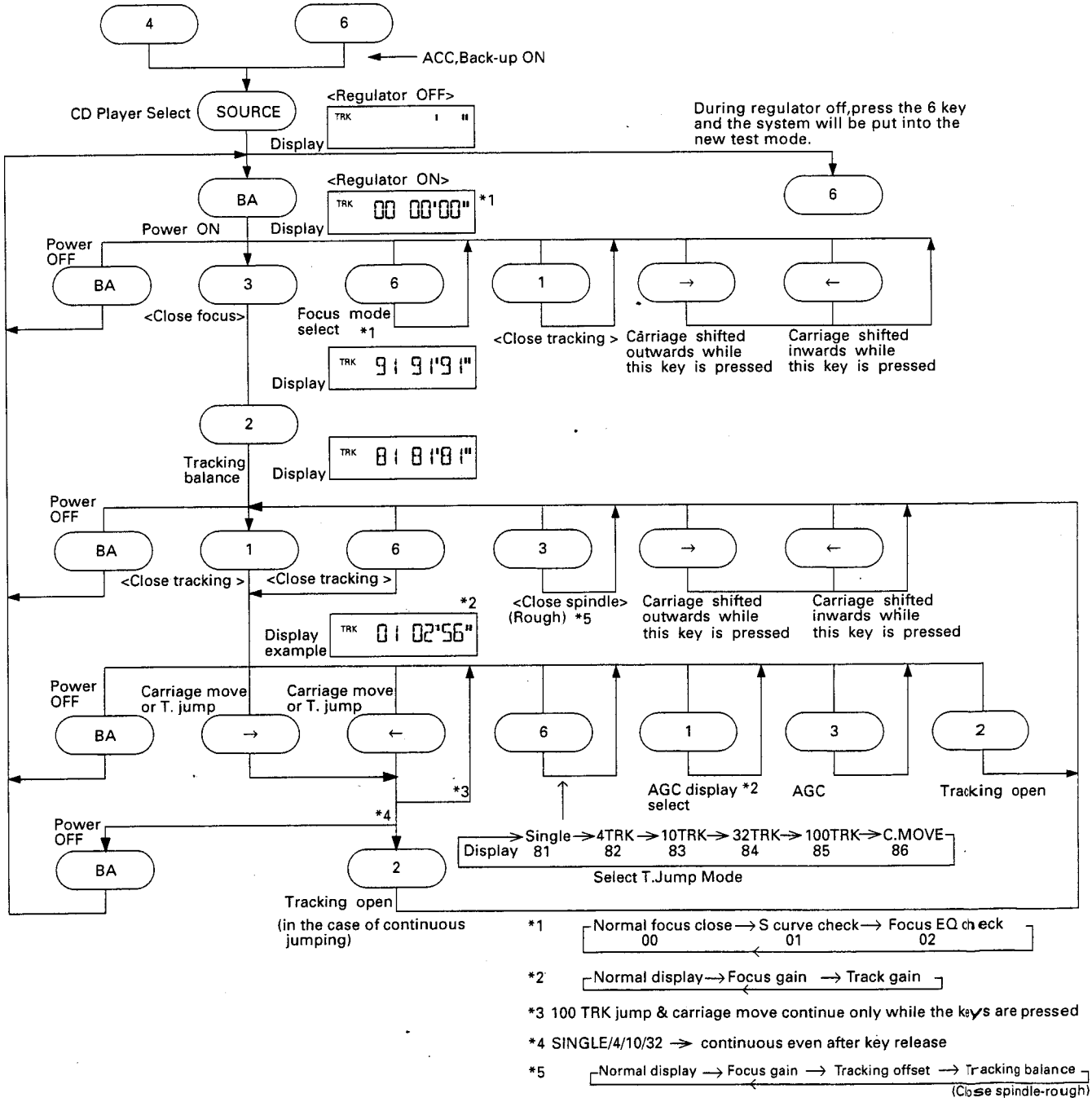
· When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.

· Turn power off when pressing the button → or the button ← key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

· SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released.Tracking is closed the moment C-MOVE is released.

· JUMP MODE resets to SINGLE as soon as power is switched OFF.

## ● Flow Chart


4
6
ACC,Back-up ON
CD Player Select
SOURCE
<Regulator OFF>
Display
During regulator off,press the 6 key and the system will be put into the new test mode.
BA
<Regulator ON>
*1
Power ON
Display
Power OFF
BA
3
6
1
→
←
<Close focus>
Focus mode select *1
<Close tracking >
Carriage shifted outwards while this key is pressed
Carriage shifted inwards while this key is pressed
Display
2
Tracking balance
Display
Power OFF
BA
1
6
3
→
←
<Close tracking >
<Close tracking >
<Close spindle> (Rough) *5
Carriage shifted outwards while this key is pressed
Carriage shifted inwards while this key is pressed
*2
Display example
Power OFF
Carriage move or T. jump
Carriage move or T. jump
BA
→
←
6
1
3
2
*3
AGC display *2 select
AGC
Tracking open
*4
Power OFF
BA
2
Tracking open
(in the case of continuous jumping)
Display 81 Single → 82 4TRK → 83 10TRK → 84 32TRK → 85 100TRK → 86 C.MOVE
Select T.Jump Mode
*1 Normal focus close → 00 S curve check → 01 Focus EQ check → 02
*2 Normal display → Focus gain → Track gain
*3 100 TRK jump & carriage move continue only while the keys are pressed
*4 SINGLE/4/10/32 → continuous even after key release
*5 Normal display → Focus gain → Tracking offset → Tracking balance
(Close spindle-rough)

## ● Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

**(1) Basic Means of Display**

·With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display ERROR-XX

**(2) Error Codes**

| Error Code | Classification | Description | Cause/Detail |
|---|---|---|---|
| 10 | ELECTRIC | Carriage home failure | Carriage doesn't move to or from the innermost position<br>→Home switch failed and/or carriage immobile |
| 11 | ELECTRIC | Focus failure | Focus failed<br>→Defects, disc upside-down, severe vibration |
| 12 | ELECTRIC | SETUP failure<br>Subcode failure | Spindle failed to lock or subcode unreadable<br>→Spindle defective, defect, severe vibration |
| 14 | ELECTRIC | Mirror failure | Unrecorded CD-R<br>The disc is upside-down, defects, vibration |
| 17 | ELECTRIC | Set up failure | AGC protect failed<br>→Defects, disc upside-down, severe vibration |
| 19 | ELECTRIC | Set up failure | Tracking error waveform is too unbalanced (>50%) or level is too small<br>→The P.U.unit or tracking error circuitry is N.G. |
| 30 | ELECTRIC | Search time out | Failed to reach target address<br>→Carriage/tracking defective and/or defects |
| A0 | SYSTEM | Power failure | Power overvoltage or short circuit detected<br>→Switching transistor defective and/or power abnormal |

"defects" means scratches, dirt etc an the surface of the disc.

## ● New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point)is displayed.

**(1) How to enter NEW TEST Mode**

See the test mode flow chart Page 71.

**(2) Relations of keys between TEST and NEW TEST Modes**

| Keys | Test Mode | | New Test Mode | |
|---|---|---|---|---|
| | Regulator OFF | Regulator ON | PLAY in progress | Error Occurred, Protection Activated |
| BA | Regulator ON | Regulator OFF | — | Time of occurrence / cause of error select |
| → | — | FWD-KICK | TRACK+ / FF | — |
| ← | — | REV-KICK | TRACK- / REV | — |
| 1 | — | TRACKING CLOSE | SCAN | — |
| 2 | — | TRACKING OPEN | REPEAT | — |
| 3 | — | FOCUS CLOSE | RANDOM | — |
| 6 | To New Test Mode Select | FOCUS MODE | AUTO/MANU | — |

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

**(3) Error Cause (Error Number) Code**

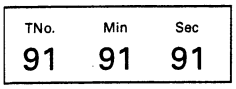
| Error Code | Classification | Mode | Description | Cause | Detail |
|---|---|---|---|---|---|
| 40 | ELECTRIC | PLAY | FOK=L 100ms | Put out of focus | Scratch, Stain, Vibration, Servo defect, etc... |
| 41 | ELECTRIC | PLAY | LOCK=L 100ms | Spindle unlock | |
| 42 | ELECTRIC | PLAY | Subcode unacceptable 500ms | Failed to read subcode | |
| 43 | ELECTRIC | PLAY | Sound skipped | Last address memory operated | |

**(4) Indicating an Operation Status During Setup**

| Status No. | Description | Protection operation |
|---|---|---|
| 01 | Carriage home mode started | None |
| 02 | Carriage moving inwards | 10-second time out, Home switch failed |
| 03 | Carriage moving outwards | 10-second time out, Home switch failed |
| 05 | Carriage moving outwards | None |
| 11 | Setup started | None |
| 12 | Spindle turn/Focus search started | None |
| 13 | Waiting for focus closure (XSI=L) | Failure to close focus |
| 10,14 | Waiting for focus closure (FOK=H) | Failure to close focus |
| 15, 16, 17 | Focus closed, Tracking open | Focus disrupted |
| 18 | During focus AGC Subcode waiting | Focus disrupted |
| 19 | During tracking AGC | Disrupted focus |
| 20 | Waiting for MIRR, LOCK or subcode read Carriage closed, SPINDLE=ADAPTIVE | Focus disrupted, MIRR NG, Failure to lock, Failed to read subcode |

**(5) Example of Display.**

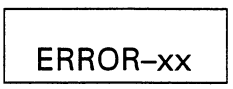
·SET UP in progress




·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

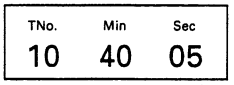
·Protection/Error upon occurrence

(a) Error number indicated



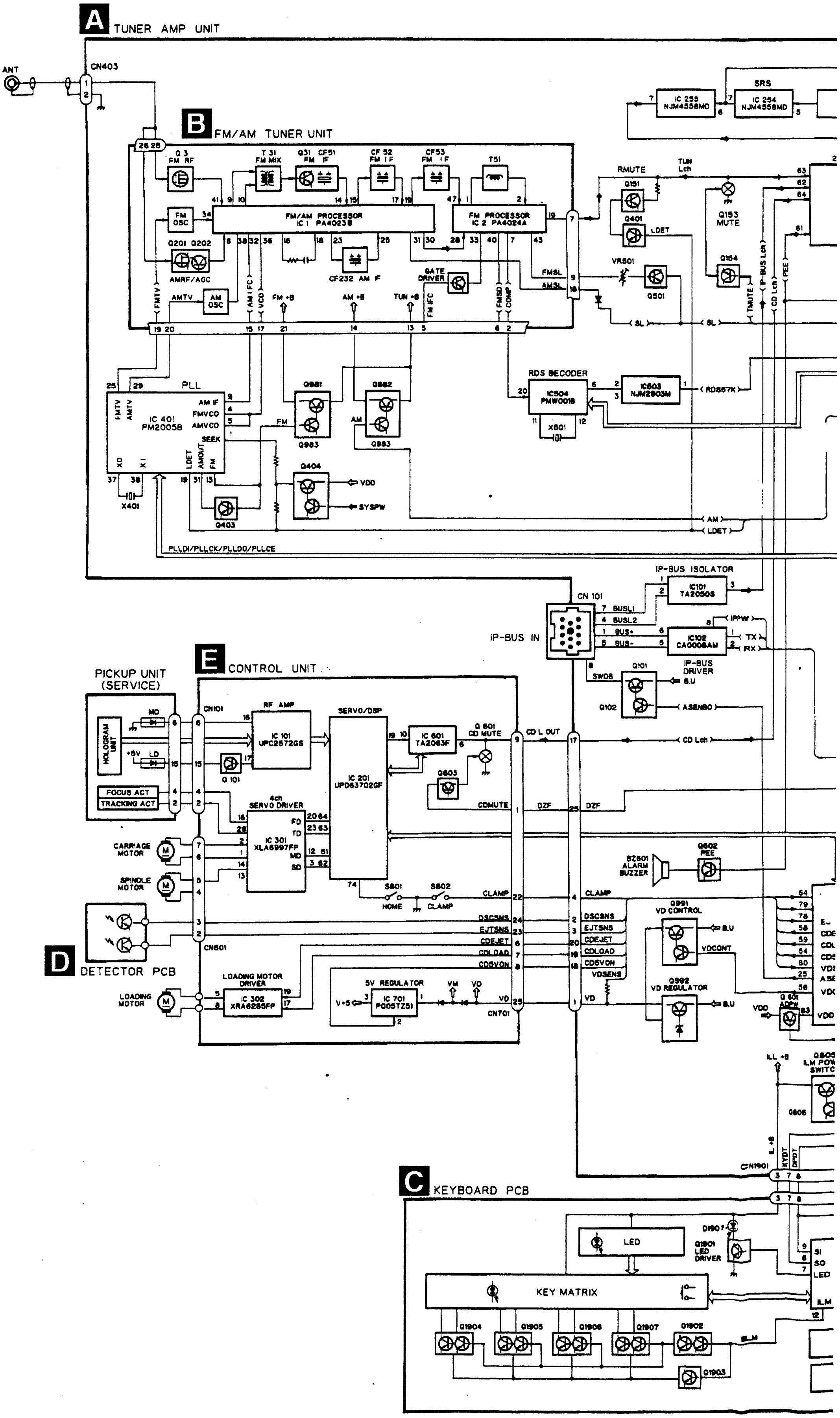

Select the display with the BAND key.

(b) Track number and absolute time indicated



## 7.3 BLOCK DIAGRAM

● **DEH-P835R/EW**


A TUNER AMP UNIT
ANT
CN403
SRS
IC 255 NJM4558MD
IC 254 NJM4558MD
B FM/AM TUNER UNIT
Q 3 FM RF
T 31 FM MIX
Q31 FM
CF51 IF
CF 52 FM IF
CF53 FM IF
T51
FM OSC
FM/AM PROCESSOR IC 1 PA4023B
FM PROCESSOR IC 2 PA4024A
Q201 Q202
AMRF/AGC
AM OSC
AMTV
FMTV
AM IFC
VCO
FM +B
AM +B
TUN +B
FM IFC
CF232 AM IF
GATE DRIVER
FMSD
COMP
FMSL
AMSL
RMUTE
TUN Lch
Q151
Q401
LDET
Q153 MUTE
VR501
Q501
Q154
SL
TMUTE
IP-BUS Lch
CD Lch
PEE
PLL
IC 401 PM2005B
AM IF
FMVCO
AMVCO
SEEK
X401
Q981
Q982
Q983
Q404
VDD
SYSPW
Q403
RDS BECODER
IC504 PMW001B
IC503 NJM2903M
RDS57K
X601
AM
LDET
PLLDI/PLLCK/PLLDO/PLLCE
IP-BUS ISOLATOR
IC101 TA2050S
CN 101
IP-BUS IN
BUSL1
BUSL2
BUS+
BUS-
IC102 CA0008AM
IPPW
TX
RX
IP-BUS DRIVER
SWDB
Q101
Q102
B.U
ASENBO
E CONTROL UNIT
PICKUP UNIT (SERVICE)
HOLOGRAM UNIT
MD
LD
FOCUS ACT
TRACKING ACT
CN101
RF AMP
IC 101 UPC2572GS
Q 101
SERVO/DSP
IC 201 UPD63702GF
IC 601 TA2063F
Q 601 CD MUTE
Q603
CDMUTE
CD L OUT
DZF
4ch SERVO DRIVER
IC 301 XLA6997FP
CARRIAGE MOTOR
SPINDLE MOTOR
S801 HOME
S802 CLAMP
CLAMP
BZ601 ALARM BUZZER
Q602 PEE
DSCSNS
EJTSNS
CDEJET
CDLOAD
CD5VON
VDSENS
Q991 VD CONTROL
VDCONT
Q992 VD REGULATOR
Q 601 ADPW
D DETECTOR PCB
CN801
LOADING MOTOR
LOADING MOTOR DRIVER
IC 302 XRA6285FP
5V REGULATOR
IC 701 PQ05TZ51
V+5
VM
VD
CN701
ILL +B
Q806
CN1901
KYDT
DPDT
C KEYBOARD PCB
LED
D1907
Q1901 LED DRIVER
KEY MATRIX
SI
SO
ILM
Q1904
Q1905
Q1906
Q1907
Q1902
Q1903

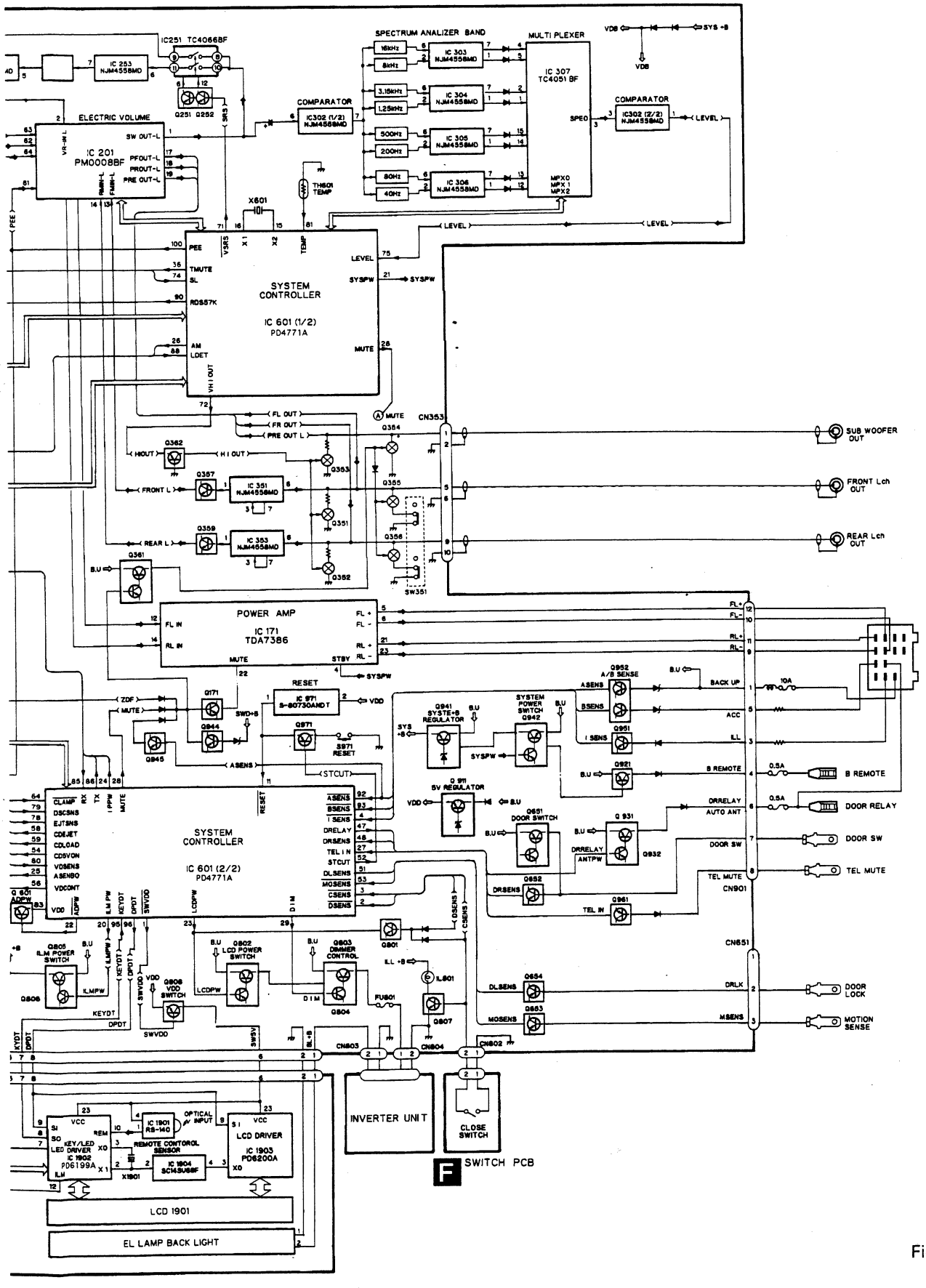

SYSTEM CONTROLLER
IC 601 (1/2)
PD4771A
SYSTEM CONTROLLER
IC 601 (2/2)
PD4771A
POWER AMP
IC 171
TDA7386
ELECTRIC VOLUME
IC 201
PM0008BF
SPECTRUM ANALIZER BAND
MULTI PLEXER
IC 307
TC4051BF
COMPARATOR
SUB WOOFER OUT
FRONT Lch OUT
REAR Lch OUT
B REMOTE
DOOR RELAY
DOOR SW
TEL MUTE
DOOR LOCK
MOTION SENSE
INVERTER UNIT
CLOSE SWITCH
SWITCH PCB
LCD 1901
EL LAMP BACK LIGHT
LCD DRIVER
IC 1903
PD6200A

Fig. 27

# 8. OPERATIONS AND SPECIFICATIONS

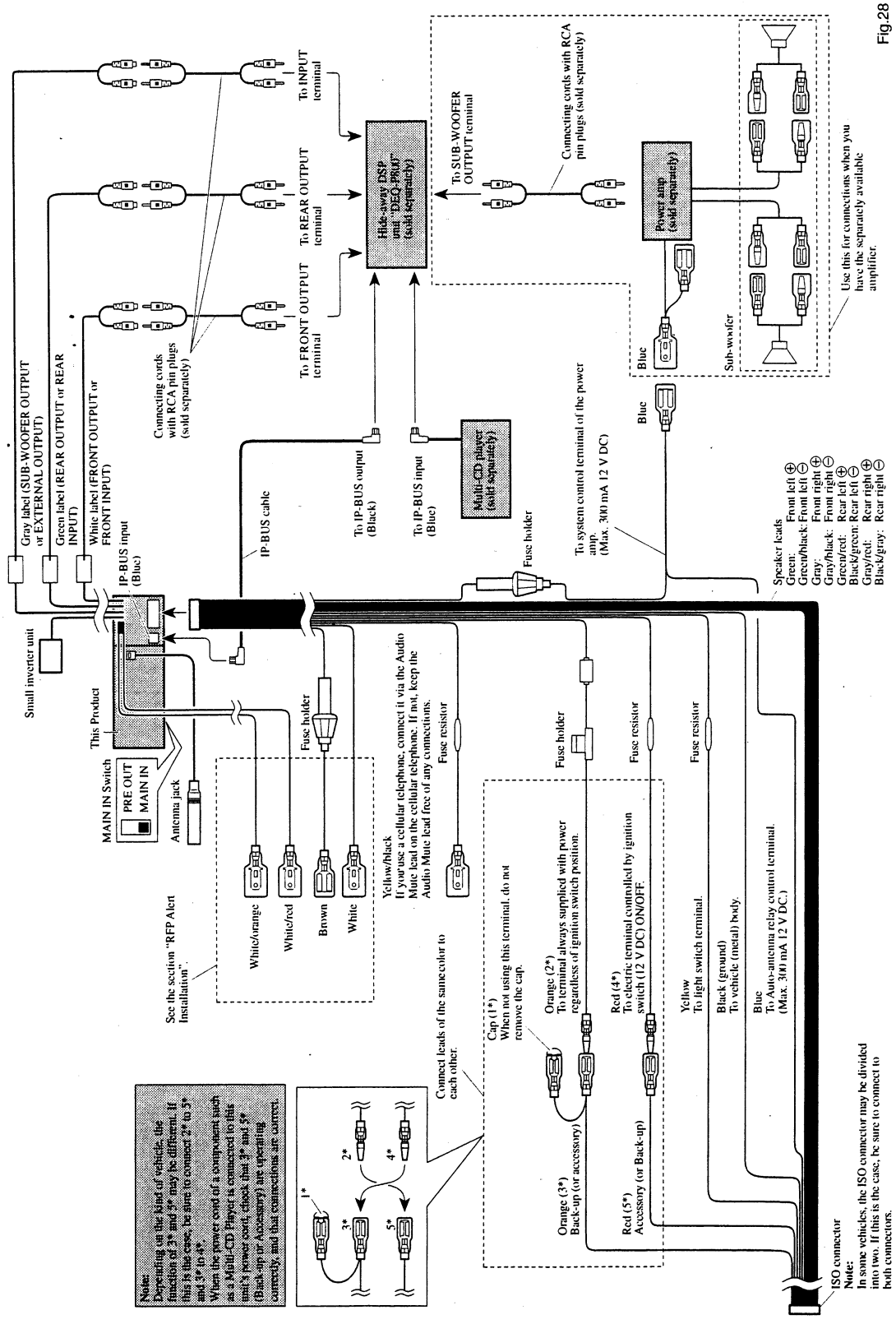

Gray label (SUB-WOOFER OUTPUT or EXTERNAL OUTPUT)
Green label (REAR OUTPUT or REAR INPUT)
White label (FRONT OUTPUT or FRONT INPUT)
IP-BUS input (Blue)
Small inverter unit
This Product
MAIN IN Switch
PRE OUT
MAIN IN
Antenna jack
Connecting cords with RCA pin plugs (sold separately)
To INPUT terminal
To REAR OUTPUT terminal
To FRONT OUTPUT terminal
Hide-away DSP unit "DEQ-P835R" (sold separately)
To SUB-WOOFER OUTPUT terminal
Connecting cords with RCA pin plugs (sold separately)
Power amp (sold separately)
Blue
Sub-woofer
Use this for connections when you have the separately available amplifier.
IP-BUS cable
To IP-BUS output (Black)
To IP-BUS input (Blue)
Multi-CD player (sold separately)
Fuse holder
To system control terminal of the power amp. (Max. 300 mA 12 V DC)
Blue
Speaker leads
Green: Front left ⊕
Green/black: Front left ⊖
Gray: Front right ⊕
Gray/black: Front right ⊖
Green/red: Rear left ⊕
Black/green: Rear left ⊖
Gray/red: Rear right ⊕
Black/gray: Rear right ⊖
Fuse holder
Fuse resistor
Yellow/black
If you use a cellular telephone, connect it via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.
White/orange
White/red
Brown
White
See the section "RFP Alert Installation".
Fuse holder
Fuse resistor
Fuse resistor
Fuse resistor
Connect leads of the same color to each other.
Cap (1*)
When not using this terminal, do not remove the cap.
Orange (2*)
To terminal always supplied with power regardless of ignition switch position.
Red (4*)
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Yellow
To light switch terminal.
Black (ground)
To vehicle (metal) body.
Blue
To Auto-antenna relay control terminal. (Max. 300 mA 12 V DC.)
Orange (3*)
Back-up (or accessory)
Red (5*)
Accessory (or Back-up)
ISO connector
Note:
Depending on the kind of vehicle, the function of 3* and 5* may be different. If this is the case, be sure to connect 2* to 5* and 4* to 4*.
When the power cord of a component such as a Multi-CD Player is connected to this unit's power cord, check that 3* and 5* (Back-up or Accessory) are operating correctly, and that connections are correct.
1*
2*
3*
4*
5*
Note:
In some vehicles, the ISO connector may be divided into two. If this is the case, be sure to connect to both connectors.

Fig.28

## Connecting the Units <ENGLISH>

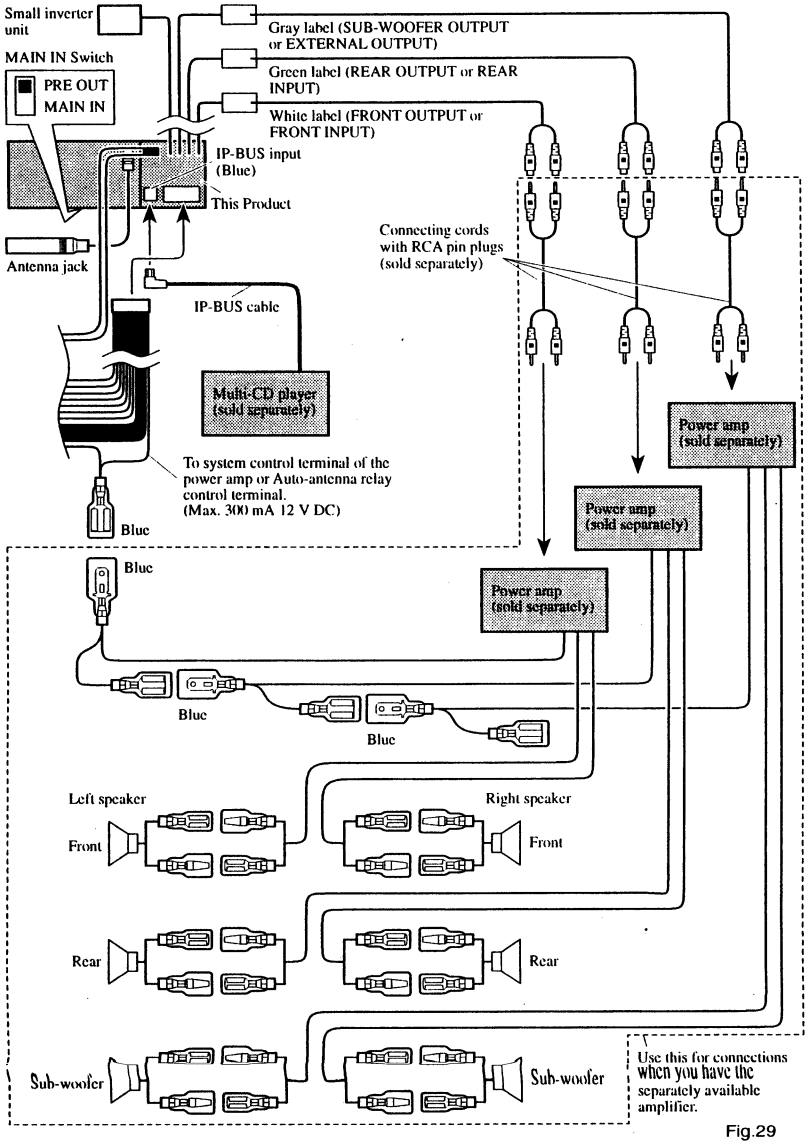
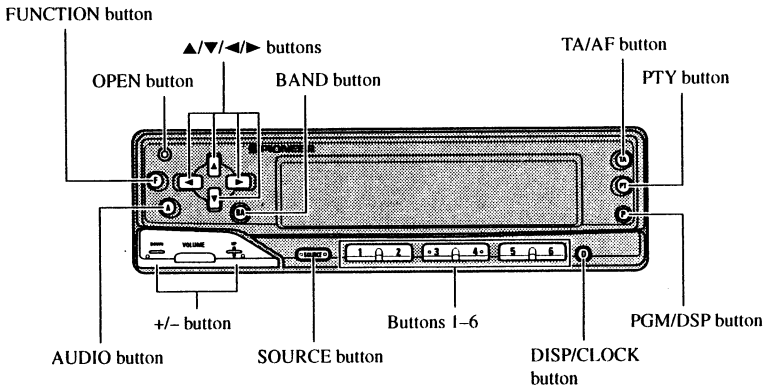


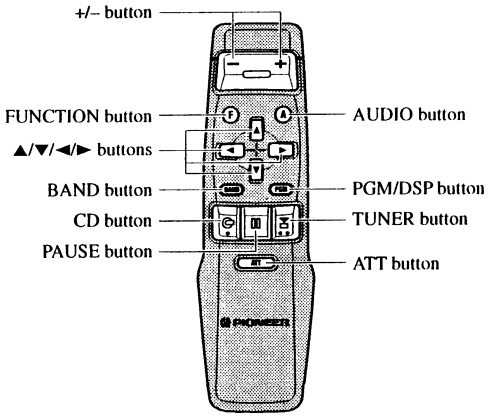

Fig.29

## Key Finder

### ■ Head Unit



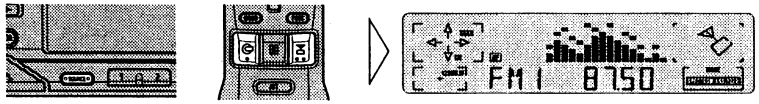

### ■ Remote Controller



# Basic Operation

## Switching Power ON/OFF

- **Select the desired source (such as the tuner).**




### ■ Head Unit

Each press of the SOURCE button selects the desired source in the following order:
Built-in CD Player → Tuner → Multi-CD player → AUX

To switch the sources OFF, hold down the SOURCE button for 1 second or more.

### ■ Remote Controller

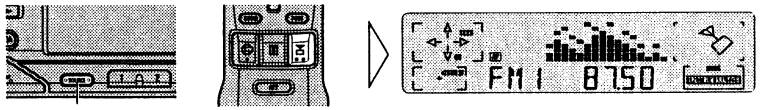
Each press of the button selects the desired source in the following order:
TUNER button : Tuner → OFF
CD button : Built-in CD Player → Multi-CD player → OFF

**Note:**
- In the following cases, the sound source will not change:
  * No Multi-CD player is connected to this product.
  * No disc is set in this product.
  * No magazine is set in the Multi-CD player.
  * AUX (external input) is set to OFF.

# Tuner Operation

## Basic Operation of Tuner

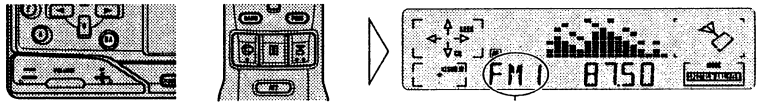
1. **Select Tuner.**




Each press
changes the Source ...

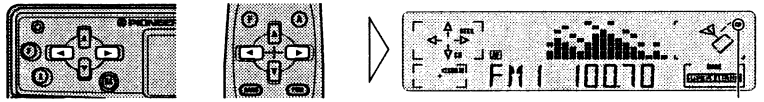
The program service name or frequency appears on the display.

2. **Select the desired band.**




FM1 → FM2 → FM3 → MW/LW

3. **Tune the receiver to a higher or lower frequency.**




"◯"

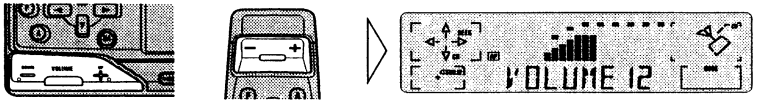
This product's tuner lets you select the tuning by changing the length of the time you press the button.

| | |
|---|---|
| Manual Tuning (step by step) | 0.3 seconds or less |
| Seek Tuning (automatically) | 0.3 – 2 seconds |
| Manual Tuning (continuously) | 2 seconds or more |

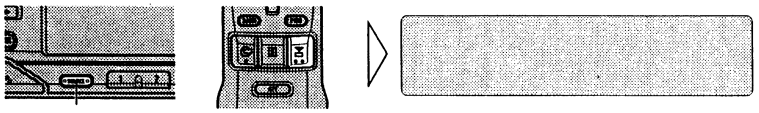
**Note:**
- "◯" indicator lights when a stereo station is selected.
- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning.

## *Tuner Operation*

**4. Raise or lower the volume.**




**5. Turn the source OFF.**

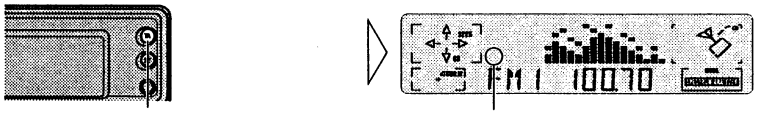


Hold for 1 second

### AF Function Switching

This product's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

- **Switch AF OFF.**




Hold for 2 seconds

"AF" disappears

To switch AF ON, repeat the preceding operation.

**Note:**

- You can also switch the AF Function ON/OFF in the Function Menu.

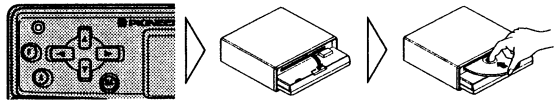


## *Using the Built-in CD Player*

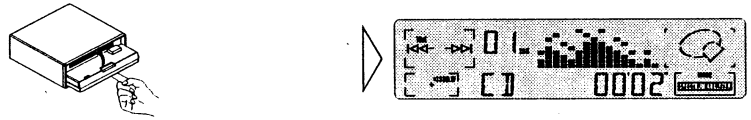
### Basic Operation of Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

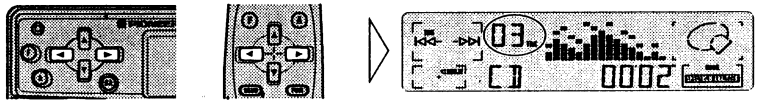
**1. Open the front panel and insert the disc with the recorded (iridescent) surface down.**



**2. Close the front panel by swinging it gently upward.**



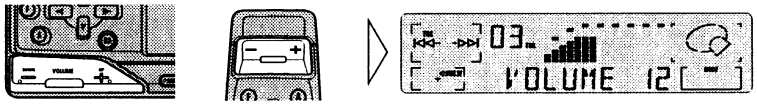

**3. Select the desired track (or fast-foward/reverse, per the chart below).**



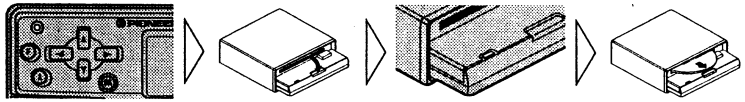

This product's built-in CD player lets you select the Track Search function or Fast-forward/Reverse function by changing the length of the time you press the button.

| | |
|---|---|
| Track Search | 0.5 seconds or less |
| Fast-forward/Reverse | Continue pressing |

**4. Raise or lower the volume.**



5. **Open the front panel and remove the disc.**

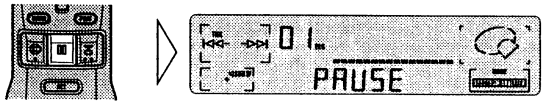


Be sure to close the front panel after removing the disc.

**Note:**
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 9.)
- Discs left partially inserted after ejection may incur damage or fall out.
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, push the EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display.

## Pause

- **Stop playback temporarily or restarts the system.**



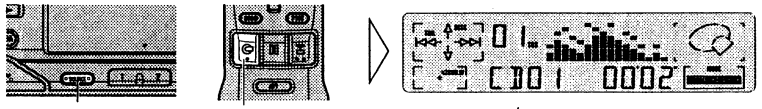

**Note:**
- You can also switch the Pause function ON/OFF in the Function Menu.

# *Using Multi-CD Players*

This product can control one or more multi-CD players.

## Basic Operation of Multi-CD Players

1. **Select the multi-CD player source.**

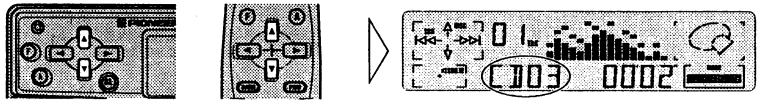


Each press changes the Source ...

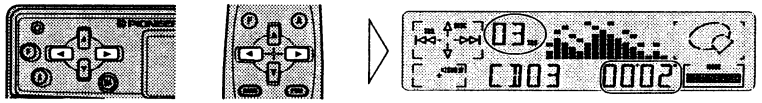
Each press, changes the Source ...

**Note:**
- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.

2. **Select the desired disc.**



3. **Select the desired track (or fast-forward/reverse, per the chart below).**

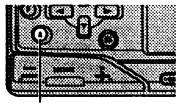


This product lets you select the track search function or fast-forward/reverse function by changing the length of the time you press the button.

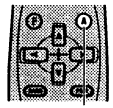
| | |
|---|---|
| Track search | 0.5 seconds or less |
| Fast-forward/Reverse | Continue pressing |

## Entering the Audio Menu

- **Select the mode you want to adjust in Audio Menu.**



Each press changes the Mode ...



Each press changes the Mode ...

Each press of the AUDIO button selects the mode in the following order:
FAD → BAS* → MID* → TRE* → LOUD → SUB.W** → (80HZ 0)**
→ (ASL)* → FIE → 3D–SRND* → PEAKBOUND → SLA

* You cannot select the "BAS", "MID", "TRE" and "3D_SRND" modes when a Hide-away DSP "DEQ-P800" is connected to this product.
You can select the "ASL" mode only when a Hide-away DSP "DEQ-P800" is connected to this product.

** You cannot select the "SUB.W" and "80Hz 0" modes when a DSP (except the Hide-away DSP) is connected to this product.

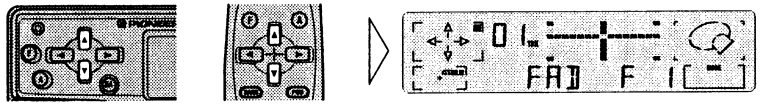
To cancel the Audio Menu, press the BAND button.

**Note:**
- You can select the "80HZ 0" mode only when sub-woofer output is switched ON in the SUB.W mode.
- After entering the Audio Menu, if you do not perform an operation which 30 seconds, the Audio Menu is automatically canceled.

## Balance Adjustment

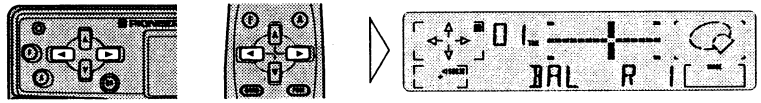
This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Select the Fader/Balance mode (FAD) in the Audio Menu.**
2. **Shift the balance progressively to the front or rear speakers.**




"FAD F15" – "FAD R15" is displayed as it moves from front to rear.
("FAD F9" – "FAD R9" is displayed as it moves from front to rear when a Hide-away DSP "DEQ-P800" is connected to this product.)

3. **Shift the balance to the left or right speaker, respectively.**




"BAL L9" – "BAL R9" is displayed as it moves from left to right.

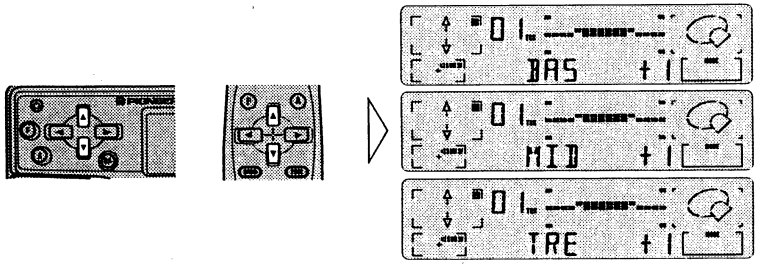
To cancel the Audio Menu, press the BAND button.

**Note:**
- "FAD 0" is the proper setting when 2 speakers are in use.
- You cannot shift the balance progressively to the front or rear speakers when a DSP (except the Hide-away DSP) is connected to this product.

## Bass/Middle/Treble Adjustment

This product is equipped with three tone adjustment modes, the Bass (BAS), Middle (MID) and Treble (TRE) modes. It is possible to select a different tone adjustment setting for each source.The built-in CD player and multi-CD player are set to the same tone adjustment setting automatically.

1. **Select bass mode (BAS), middle mode (MID) or treble mode (TRE) in the Audio Menu.**
2. **Increase or decrease the intensity of the Bass, Middle or Treble, whichever is selected.**




The display shows "+6" – "–6".

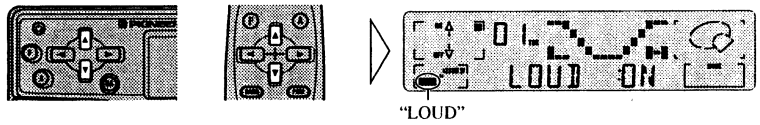
3. **Repeat steps 1–2 above for the other Bass, Middle or Treble Adjustment.**

To cancel the Audio Menu, press the BAND button.

## Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

1. **Select the Loudness mode (LOUD) in the Audio Menu.**
2. **Switch the Loudness function ON or OFF.**




"LOUD"

To cancel the Audio Menu, press the BAND button.

### General

| | |
|---|---|
| Power source | 14.4 V DC (10.8 – 15.1 V allowable) |
| Grounding system | Negative type |
| Max. current consumption | 10 A |
| Dimensions | |
| (mounting size) | 178 (W) × 50 (H) × 155 (D) mm |
| (front face) | 188 (W) × 58 (H) × 18 (D) mm |
| Weight | 1.4 kg |

### Amplifier

| | |
|---|---|
| Maximum power output | 40 W × 4 |
| Continuous power output | 25 W × 4 (DIN45324, +B = 14.4 V) |
| Load impedance | 4 Ω (4 – 8 Ω allowable) |
| Preout output level/output impedance | 500 mV/1 kΩ |
| Sub-woofer output | |
| Crossover frequency | 50 Hz, 80 Hz, 125 Hz |
| Crossover slope | –18 dB/oct |
| Tone controls | |
| (Bass) | ±12 dB (100 Hz) |
| (Middle) | ±12 dB (400 Hz) |
| (Treble) | ±12 dB (10 kHz) |
| Loudness contour | +10 dB (100 Hz), +7 dB (10 kHz) (volume: –30 dB) |

### CD player

| | |
|---|---|
| System | Compact disc audio system |
| Usable discs | Compact disc |
| Signal format | Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear |
| Frequency characteristics | 5 – 20,000 Hz (±1 dB) |
| Signal-to-noise ratio | 94 dB (1 kHz) (IEC-A network) |
| Dynamic range | 90 dB (1 kHz) |
| Number of channels | 2 (stereo) |

### FM tuner

| | |
|---|---|
| Frequency range | 87.5 – 108 MHz |
| Usable sensitivity | 11 dBf (1.0 µV/75 Ω, mono, S/N: 30 dB) |
| 50 dB quieting sensitivity | 16 dBf (1.7 µV/75 Ω, mono) |
| Signal-to-noise ratio | 70 dB (IEC-A network) |
| Distortion | 0.3% (at 65 dBf, 1 kHz, stereo) |
| Frequency response | 30 – 15,000 Hz (±3 dB) |
| Stereo separation | 40 dB (at 65 dBf, 1 kHz) |

### MW tuner

| | |
|---|---|
| Frequency range | 531 – 1,602 kHz |
| Usable sensitivity | 18 µV (25 dB) (S/N: 20 dB) |
| Selectivity | 50 dB (±9 kHz) |

### LW tuner

| | |
|---|---|
| Frequency range | 153 – 281 kHz |
| Usable sensitivity | 30 µV (30 dB) (S/N: 20 dB) |
| Selectivity | 50 dB (±9 kHz) |

**Note:**

- Specifications and the design are subject to possible modification without notice due to improvements.

PION-05408

PIONEER
*The Art of Entertainment*

# Service Manual

ORDER NO.
**CRT2049**

MULTI-CD/DSP CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

# DEH-P835R X1B/EW

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

# DEH-P735R X1B/EW

COMPACT disc DIGITAL AUDIO

● **This additional service manual is designed to be used together with Model DEH-P835R/EW Service Manual CRT2036. Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual.** +5397

## EXPLODED VIEWS AND PARTS LIST

### PACKING

● **PARTS LIST(Page 3)** *:Non Spare Part

| Mark No. | Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P835R/X1B/EW |
|---|---|---|---|
| | 1-1 Owner's Manual | CRD2353 | URD2353 |
| | 1-2 Owner's Manual | CRD2354 | URD2354 |
| | 1-3 Owner's Manual | CRD2355 | URD2355 |
| | 1-4 Installation Manual | CRD2357 | URD2357 |
| | 1-5 Installation Manual | CRD2472 | URD2472 |
| | 1-6 Installation Manual | CRD2473 | URD2473 |
| | 1-7 Caution Card | CRP1145 | URP1145 |
| | 1-9 Passport | CRY1013 | CRY1014 |
| * | 1-10 Warranty Card | CRY1087 | URY1087 |
| | 1-11 Polyethylene Bag | CEG1116 | UEG1116 |
| | 3 Accessory Assy | CEA2065 | UEA2065 |
| * | 13 Polyethylene Bag | E36-615 | CEG-127 |
| | 27 Polyethylene Bag | CEG-162 | UEG-002 |
| | 29 Battery | CEX1006 | UEX1006 |
| | 30 Carton | CHG3281 | UHG3281 |
| | 31 Contain Box | CHL3281 | UHL3281 |
| | 32 Protector | CHP1766 | UHP1766 |
| | 33 Protector | CHP1767 | UHP1767 |

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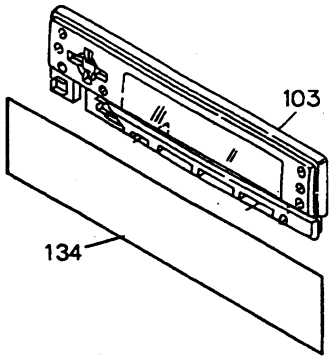
## EXTERIOR

● **PARTS LIST(Page 5)**

| Mark No. | Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P835R/X1B/EW |
|---|---|---|---|
| 28 | Tuner Amp Unit | CWM5048 | UWM5048 |
| 31 | Antenna Cable | CDH1146 | UDH1146 |
| 57 | Panel Assy | CXA9951 | UXA9951 |
| 94 | Keyboard Unit | CWM5062 | UWM5062 |
| 96 | Cord | CDE4387 | UDE4387 |
| 80 | Detach Grille Assy | CXA9967 | UXA9967 |
| 107 | CD Mechanism Module | CXK5001 | UXK5001 |
| 134 | Spacer | Not used | CNM4751 |




## CD MECHANISM MODULE

● **PARTS LIST(Page 8)**

| Mark No. | Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P835R/X1B/EW |
|---|---|---|---|
| 1 | Control Unit(S7) | CWX1889 | UWX1889 |

## ELECTRICAL PARTS LIST

● **PARTS LIST**

**Tuner Amp Unit(Page 43)**

| Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P835RX1B/EW |
|---|---|---|
| D901,902,911,921 | ERA15-02VH | 1SR139-200 |
| D922,931,932,951 | ERA15-02VH | 1SR139-200 |
| D971 | MA151K | DAN212K |

**Keyboard Unit(Page 53)**

| Symbol & Description | Part No. DEH-P835R/EW | Part No. DEH-P835RX1B/EW |
|---|---|---|
| Q1901 | 2SC2712 | 2SC2412K |

# EXPLODED VIEWS AND PARTS LIST

## PACKING

● **PARTS LIST(Page 3)** *:Non Spare Part

| Mark No. | Symbol & Description | Part No. DEH-P735R/EW | Part No. DEH-P735R/X1B/EW |
|---|---|---|---|
| | 1-1 Owner's Manual | CRD2358 | URD2358 |
| | 1-2 Owner's Manual | CRD2359 | URD2359 |
| | 1-3 Owner's Manual | CRD2360 | URD2360 |
| | 1-4 Installation Manual | CRD2361 | URD2361 |
| | 1-5 Installation Manual | CRD2476 | URD2476 |
| | 1-6 Installation Manual | CRD2477 | URD2477 |
| | 1-7 Caution Card | CRP1145 | URP1145 |
| | 1-9 Passport | CRY1013 | CRY1014 |
| * | 1-10 Warranty Card | CRY1087 | URY1087 |
| | 1-11 Polyethylene Bag | CEG1116 | UEG1116 |
| | 3 Accessory Assy | CEA2065 | UEA2065 |
| * | 13 Polyethylene Bag | E36-615 | CEG-127 |
| | 27 Polyethylene Bag | CEG-162 | UEG-002 |
| | 29 Battery | CEX1006 | UEX1006 |
| | 30 Carton | CHG3285 | UHG3285 |
| | 31 Contain Box | CHL3285 | UHL3285 |
| | 32 Protector | CHP1766 | UHP1766 |
| | 33 Protector | CHP1767 | UHP1767 |

## EXTERIOR

● **PARTS LIST(Page 5)**

| Mark No. | Symbol & Description | Part No. DEH-P735R/EW | Part No. DEH-P735R/X1B/EW |
|---|---|---|---|
| | 28 Tuner Amp Unit | CWM5053 | UWM5053 |
| | 31 Antenna Cable | CDH1146 | UDH1146 |
| | 57 Panel Assy | CXA9951 | UXA9951 |
| | 94 Keyboard Unit | CWM5416 | UWM5416 |
| | 96 Cord | CDE4387 | UDE4387 |
| | 80 Detach Grille Assy | CXA9973 | UXA9973 |
| | 107 CD Mechanism Module | CXK5001 | UXK5001 |

## CD MECHANISM MODULE

● **PARTS LIST(Page 8)**

| Mark No. | Symbol & Description | Part No. DEH-P735R/EW | Part No. DEH-P735R/X1B/EW |
|---|---|---|---|
| | 1 Control Unit(S7) | CWX1889 | UWX1889 |

# ELECTRICAL PARTS LIST

## ● PARTS LIST

**Tuner Amp Unit(Page 49)**

| Symbol & Description | Part No. | |
|---|---|---|
| | DEH-P735R/EW | DEH-P735RX1B/EW |
| D901,902,911,921 | ERA15-02VH | 1SR139-200 |
| D922,931,932,951 | ERA15-02VH | 1SR139-200 |
| D971 | MA151K | DAN212K |

**Keyboard Unit(Page 54)**

| Symbol & Description | Part No. | |
|---|---|---|
| | DEH-P735R/EW | DEH-P735RX1B/EW |
| Q1901 | 2SC2712 | 2SC2412K |